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Water Resources Data for Wyoming

Water Year 1976

Volume 2. Green River Basin
Bear River Basin
Snake River Basin

U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-76-2

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Prepared in cooperation with the State of Wyoming
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UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

W. A. Radlinski, Acting Director

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1978

PREFACE

This report was prepared by personnel of the Wyoming district of the Water Resources Division of the U.S. Geological Survey under the supervision of Sam W. West, District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region. It was done in cooperation with the State of Wyoming and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Wyoming are in two volumes as follows:
Volume 1. Missouri River Basin
Volume 2. Green River, Bear River, and Snake River Basins

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Water resources data for the 1976 water year for Wyoming consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells. This report, in two volumes, contains discharge records for 226 gaging stations; stage only records for 1 lake; stage and contents for 16 lakes and reservoirs; water quality for 116 gaging stations, 68 ungaged stations, 4 lakes and reservoirs, and 253 wells and springs; and water levels for 48 observation wells. Also included are 111 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Wyoming.

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CONTENTS

Page

Preface III
List of gaging stations, in downstream order, for which records are published VI
Introduction 1
Cooperation 1
Acknowledgment 2
Hydrologic conditions 2
Definition of terms 2
Downstream order and station number 8
Numbering system for wells and miscellaneous sites 8
Special networks and programs 9
Explanation of stage and water-discharge records 9
  Collection and computation of data 9
  Accuracy of field data and computed results 11
  Other data available 12
  Records of discharge collected by agencies other than the Geological Survey 12
Explanation of water-quality records 12
  Collection and examination of data 12
  Water analysis 12
  Water temperature 12
  Sediment 13
Explanation of ground-water level records 13
  Collection of the data 13
Publications of techniques of water-resources investigations 14
Gaging station records 21
Discharge at crest-stage partial-record stations and miscellaneous sites 317
Analyses of samples collected at water-quality miscellaneous sites 322
Ground-water records 418
  Ground-water level records 418
  Quality of ground-water records 420
Index 433

ILLUSTRATIONS

Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude) 8
2. System for numbering wells and miscellaneous sites (township and range) 9
3. Discharge during 1976 water year compared with median discharge for period 1941-70 for two representative gaging stations 16
4. Location of gaging stations and peak-flow partial-record stations in the Green River and Bear River basins 17
5. Location of gaging stations and peak-flow partial-record stations in the Snake River basin 18
6. Location of observation wells and quality of ground-water sites in the Green River and Bear River basins 19
7. Location of quality of ground-water sites in the Snake River basin 20

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letter after station name designates type of data: (d) discharge, (e) elevation, gage height, or contents, (c) chemical, (b) biological, (m) microbiological, (p) pesticides, (t) water temperature, (s) sediment]

Page

COLORADO RIVER BASIN

GREEN RIVER BASIN

- Green River at Warren Bridge, near Daniel, WY (dcbms) . . . 21
- Green River near Big Piney, WY (cs) . . . 27
  - New Fork River:
    - Pine Creek above Fremont Lake, WY (dcbs) . . . 28
    - East Fork River near Big Sandy, WY (dcbs) . . . 33
  - New Fork River near Big Piney, WY (dcbs) . . . 37
  - Dry Basin Creek near Big Piney, WY (cs) . . . 41
  - La Barge Creek near La Barge Meadows ranger station, WY (dcbs) . . . 42
- Green River near La Barge, WY (dcbmpts) . . . 46
  - Fontenelle Creek near Herschler Ranch, near Fontenelle, WY (dcs) . . . 55
- Fontenelle Reservoir near Fontenelle, WY (e) . . . 58
- Green River below Fontenelle Reservoir, WY (dcbmts) . . . 59
  - Big Sandy River at Leckie Ranch, near Big Sandy, WY (dcs) . . . 67
  - Big Sandy River near Farson, WY (dcbs) . . . 69
    - Little Sandy Creek above Eden, WY (dcs) . . . 72
      - Pacific Creek near Farson, WY (cbs) . . . 75
  - Big Sandy River below Eden, WY (dcmps) . . . 77
  - Big Sandy River at Gasson Bridge, near Eden, WY (dcbs) . . . 82
  - East Otterson Wash near Green River, WY (s) . . . 87
- Green River at Big Island, near Green River, WY (cbms) . . . 88
  - Bitter Creek:
    - Great Divide basin:
      - Separation Creek at upper station, near Riner, WY (cbs) . . . 92
      - Separation Creek near Riner, WY (dcbs) . . . 97
      - Delaney Draw near Red Desert, WY (cs) . . . 106
  - Bitter Creek near Bitter Creek, WY (dcbs) . . . 107
    - Deadman Wash near Point of Rocks, WY (cs) . . . 114
  - Bitter Creek near Point of Rocks, WY (cs) . . . 115
  - Bitter Creek above Salt Wells Creek, near Salt Wells, WY (dcbs) . . . 116
    - Salt Wells Creek near South Baxter, WY (cbs) . . . 121
      - Gap Creek above Beans Spring Creek, near South Baxter, WY (cbs) . . . 128
        - Beans Spring Creek near South Baxter, WY (cbs) . . . 130
        - Beans Spring Creek at mouth, near South Baxter, WY (cbs) . . . 132
      - Gap Creek below Beans Spring Creek, near South Baxter, WY (dcbs) . . . 137
      - Big Flat Draw near Rock Springs, WY (cs) . . . 151
      - No Name Creek near Rock Springs, WY (c) . . . 151
    - Salt Wells Creek near Rock Springs, WY (cs) . . . 152
    - Salt Wells Creek near Salt Wells, WY (dcbs) . . . 153
    - Killpecker Creek at Rock Springs, WY (cm) . . . 158
  - Bitter Creek below Little Bitter Creek, near Kanda, WY (cm) . . . 161
- Green River near Green River, WY (dcbmts) . . . 164
- Green River below Green River, WY (cmp) . . . 174
  - Blacks Fork near Robertson, WY (d) . . . 177
  - Blacks Fork near Millburne, WY (dcbs) . . . 178
    - East Fork of Smith Fork, near Robertson, WY (dcs) . . . 182
      - West Fork of Smith Fork, near Robertson, WY (dcs) . . . 184
    - Smiths Fork near Lyman, WY (cm) . . . 186
  - Blacks Fork near Lyman, WY (dcbmts) . . . 188
    - Muddy Creek:
      - Little Muddy Creek near Glencoe, WY (dcs) . . . 195
    - Muddy Creek near Hampton, WY (dcbs) . . . 199
    - Hams Fork below Pole Creek, near Frontier, WY (dcs) . . . 208
    - Hams Fork near Diamondville, WY (cm) . . . 211
    - Hams Fork near Granger, WY (cbs) . . . 214
  - Blacks Fork near Little America, WY (dcbmpts) . . . 218
  - Summers Dry Creek near Green River, WY (s) . . . 228
  - Green River tributary No. 2 near Burntfork, WY (cs) . . . 228
  - Henrys Fork:
    - Burnt Fork near Burntfork, WY (dcs) . . . 229
  - Henrys Fork near Manila, UT (dcbts) . . . 231
- Flaming Gorge Reservoir at Flaming Gorge Dam, UT (e) . . . 239
- Green River near Greendale, UT (dcbmt) . . . 240
  - Vermillion Creek near Hiawatha, CO (dcbs) . . . 246
  - Yampa River:
    - Little Snake River near Slater, CO (d) . . . 252
      - Slater Fork near Slater, CO (d) . . . 253
    - Little Snake River near Dixon, WY (dcbs) . . . 254
      - Willow Creek near Dixon, WY (d) . . . 260
      - Dry Cow Creek near Baggs, WY (cs) . . . 261
    - Little Snake River near Baggs, WY (cb) . . . 262

Page

GREAT SALT LAKE BASIN
BEAR RIVER BASIN
Bear River:

East Fork Bear River near Evanston, WY (d) 264
Hilliard-East Fork Canal near State line, near Evanston, WY (d). 265
West Fork Bear River at Whitney Dam, near Oakley, UT (d) 266
West Fork Bear River below Deer Creek, near Evanston, WY (d) 267
Bear River near Utah-Wyoming State line (d). 268
Sulphur Creek above reservoir, near Evanston, WY (d) 269
Sulphur Creek below reservoir, near Evanston, WY (d) 270
Yellow Creek near Evanston, WY (d) 271
Chapman Canal at State line, near Evanston, WY (d) 272
Bear River above reservoir, near Woodruff, UT (dc) 273
Woodruff Narrows Reservoir near Woodruff, UT (e) 275
Bear River below reservoir, near Woodruff, UT (d). 276
Bear River near Randolph, UT (d) 277
Twin Creek at Sage, WY (dcms). 278
Bear River below Pixley Dam, near Cokeville, WY (d). 282
Smiths Fork near Border, WY (d). 283
Bear River below Smiths Fork, near Cokeville, WY (d) 284
Bear River at Border, WY (dcmpt) 285
Thomas Fork near Wyoming-Idaho State line (d). 289

SNAKE RIVER BASIN
Snake River:

Jackson Lake near Moran, WY (e). 290
Snake River near Moran, WY (dc). 291

BUFFALO FORK BASIN

Buffalo Fork above Lava Creek, near Moran, WY (dc) 293

FLAT CREEK BASIN
Flat Creek:

Cache Creek near Jackson, WY (dcmps) 295
Snake River below Flat Creek, near Jackson, WY (dc). 299
Snake River above reservoir, near Alpine, WY (dcbmpts) 301

GREYS RIVER BASIN

Greys River above reservoir, near Alpine, WY (dc). 310

SALT RIVER BASIN
Salt River:

Swift Creek near Afton, WY (d) 312
Salt River above reservoir, near Etna, WY (dcmp) 313

HENRYS FORK BASIN

Small Reservoir in Henrys Fork basin (e) 316

WATER RESOURCES DATA FOR WYOMING, 1976

VOLUME 1: MISSOURI RIVER BASIN
VOLUME 2: GREEN RIVER, BEAR RIVER, AND SNAKE RIVER BASINS

INTRODUCTION

Water resources data for the 1976 water year for Wyoming consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. The two volumes of this report contain discharge records for 226 gaging stations; stage only records for 1 lake; stage and contents for 16 lakes and reservoirs, water quality for 116 gaging stations, 68 ungaged stations, 4 lakes and reservoirs, and 253 wells and springs; and water levels for 48 observation wells. Also included are 111 crest-stage partial-record stations. In Volume 1 (Missouri River basin) locations of gaging stations and peak-flow partial-record stations are shown in figures 4-6, and locations of observation wells and sites where water-quality data were collected from wells are shown in figures 7-9. In Volume 2 (Green River, Bear River, and Snake River basins) locations of gaging stations and peak-flow partial-record stations are shown in figures 4 and 5, and locations of observation wells and sites where water-quality data were collected from wells are shown in figures 6 and 7. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Wyoming.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report WY-76-2." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Wyoming have had cooperative agreements for the systematic collection of streamflow records since 1895, for ground-water levels since 1940, and for water-quality records since 1946. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Wyoming Department of Agriculture, Larry J. Bourret, commissioner

Wyoming State Engineer, George L. Christopulos

Wyoming Department of Economic Planning and Development, Myron W. Goodson, Chief of Water Development

Wyoming Department of Environmental Quality, William Garland, acting Administer, Water Quality Division

Wyoming Highway Department, William G. Lucas, superintendent

Wyoming Water Resources Research Institute, Paul A. Rechard, director

City of Cheyenne, Board of Public Utilitites, Ray L. Sherard, superintendent

City of Riverton, William P. Williams, city engineer

Teton County 208 Planning Agency, William H. Ashley, chairman

Assistance in the form of funds or services was given by the Bureau of Reclamation, the Bureau of Land Management, and the National Park Service, Department of the Interior, by the Corps of Engineers, U.S. Army, and by the Environmental Protection Agency, in collecting data published in the report. Funds and services were also provided by the Missouri River Basin Program.

The following organization aided in collecting records:

Western Ore Operations, United States Steel Cooperation

Organizations that supplied data are acknowledged in station descriptions.

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Wyoming district personnel who contributed significantly to the collection and preparation of the data in this report were, F.C. Boner, chief, Hydrologic Surveillance Section, assisted by S.A. Druse, W.R. Glass, D.J. O'Connell, D.J. Pangburn, J.R. Schuetz, K.G. Polinoski, and S.L. Green.

HYDROLOGIC CONDITIONS

Streamflow during the 1976 water year was above average in the Yellowstone, Shoshone, upper Green, lower Bear, and Snake River basins. Near average flow occurred in the Powder River basin and below average flow occurred in the remainder of the State.

As the water year began, streamflow was near or above average in most of the large streams. Winter flows were near normal. Near or above average flow was observed in most of the State during the mountain snowmelt period of May and June except in the North Platte River basin and streams in the Green River and upper Bear River basins draining the Uinta Mountains in southwestern Wyoming. Near normal flow occurred in most of the State during the summer months. Monthly and annual mean discharge is compared with medians at the two representative gaging stations in figure 3.

Reservoir storage in the upper Yellowstone River basin increased 13,800 acre-feet (17.0 hm^3) during the year. Storage in Keyhole Reservoir on the Belle Fourche River decreased 2,400 acre-feet (2.96 hm^3) during the year. In the North Platte River basin, storage in the major reservoirs decreased 158,000 acre-feet (195 hm^3). Storage in the Green River basin decreased 178,000 acre-feet (219 hm^3) during the year.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are definied below. See also the table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is the primary energy donor in cellular life process. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C + 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters(L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a steam or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Instantaneous discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Dissolved refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (coloidal) suspended particles. Analyses are performed on filtered samples.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of matamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (µg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.........	0.00024 - 0.004	Sedimentation.
Silt.........	.004 - .062	Sedimentation.
Sand.........	.062 - 2.0	Sedimentation or sieve.
Gravel.......	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respecitively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2.time) for periphyton and macrophytes and mg C/(m^3.time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactivity carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O$_2$/(m^2.time) for periphyton and macrophytes and mg O$_2$/(m^3.time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reaction with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata* is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexageria*
Species	*Hexagenia limbata*

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1976, is called the "1976 water year."

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 06630000, which appears just to the left of the station name, includes the 2-digit part number "06" plus the 6-digit downstream order number "630000".

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 below.

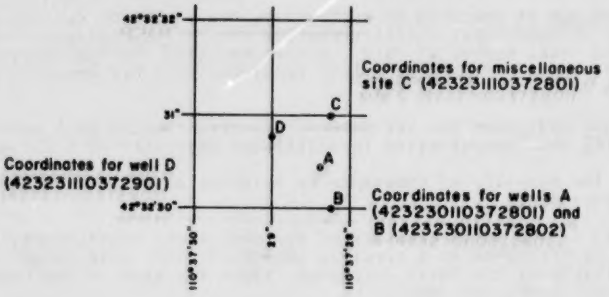
42°32'32"
31"
42°32'30"
110°37'30"
29"
110°37'28"
C
D
A
B
Coordinates for miscellaneous site C (423231110372801)
Coordinates for well D (423231110372901)
Coordinates for wells A (423230110372801) and B (423230110372802)

Figure 1.—System for numbering wells and miscellaneous sites (latitude and longitude).

In order to compare data for wells in other publications, such as the county ground-water studies, the wells in this report are also numbered according to a system based on the location in the public land classification of the U.S. Bureau of Land Management. The system is illustrated in figure 2. The first numeral denotes the township north of a base line, the second numeral denotes the range west of the fifth principal meridian, and the third numeral denotes the section in which the well is located. The letters A, B, C, and D designate, respectively, the northeast, northwest, southwest, and southeast quarter section, quarter-quarter section, and quarter-quarter-quarter section (10-acre or 4-hectare tract). For example, well 26N-063W-32CDA is in the NE¼SE¼SW¼ sec.32, T.26 N., R.63 W. Consecutive terminal numbers are added if more than one well is recorded within a 10-acre tract.

For a small irregularly-shaped area in west central Wyoming, the well numbers are based on the Wind River Meridian and Base Line system. The uppercase letter that begins the number designates the quadrant of the system. The quadrants are lettered A, B, C, and D in a counterclockwise direction beginning with A in the northeast quadrant. Otherwise, the well numbers are the same as given in the preceding paragraph.

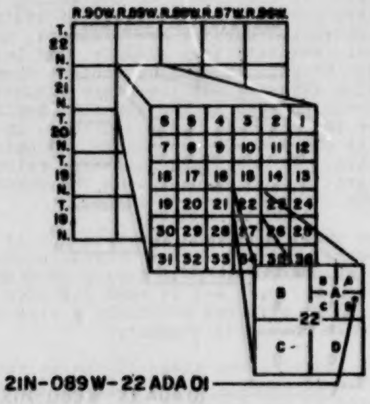

Figure 2.—System for numbering wells and miscellaneous sites (township and range).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard text-books, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponging revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indifinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of discharge collected by agencies other than the Geological Survey

The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on the following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small daily temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of quantities of suspended sediment, records for the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figures 1 and 2.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of meansurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-three manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature-influential factors, field measurement, and data presentation,* by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. $1.60.

2-D1. *Application of surface geophysics to ground-water investigations,* by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. $1.90.

2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.

3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. $0.25.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.20.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. $1.00.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. $0.30.

3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. $0.20.

3-A7. *Stage measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. $0.45.

3-A8. *Discharge measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.

3-A11. *Measurement of discharge by moving-boat method,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. $0.40.

3-A12. *Fluorometric procedures for dye tracing,* by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968, 31 pages. $0.35. Not currently available.

3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-B2. *Introduction to ground-water hydraulics-a programed text for self-instruction,* by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages. $2.50.

3-C1. *Fluvial sediment concepts,* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $0.65.

3-C2. *Field methods for measurement of fluvial sediment,* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. $0.70.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $1.15.

4-A1. *Some statistical tools in hydrology,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. $0.30.

4-A2. *Frequency curves,* by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $0.20.

4-B1. *Low-flow investigations,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972, 18 pages. $0.65.

4-B2. *Storage analyses for water supply,* by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.

4-B3. *Regional analyses of streamflow characteristics,* by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.75.

4-D1. *Computation of rate and volume of stream depletion by wells,* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. $0.65.

5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases,* by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. 0.[illegible]0.

5-A3. *Methods for analysis of organic substances in water,* by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. 0.90.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. 1.95.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages. 16.00 (by subscription only).

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $0.65.

7-C1. *Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages. $2.30.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. $0.70.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. $0.40.

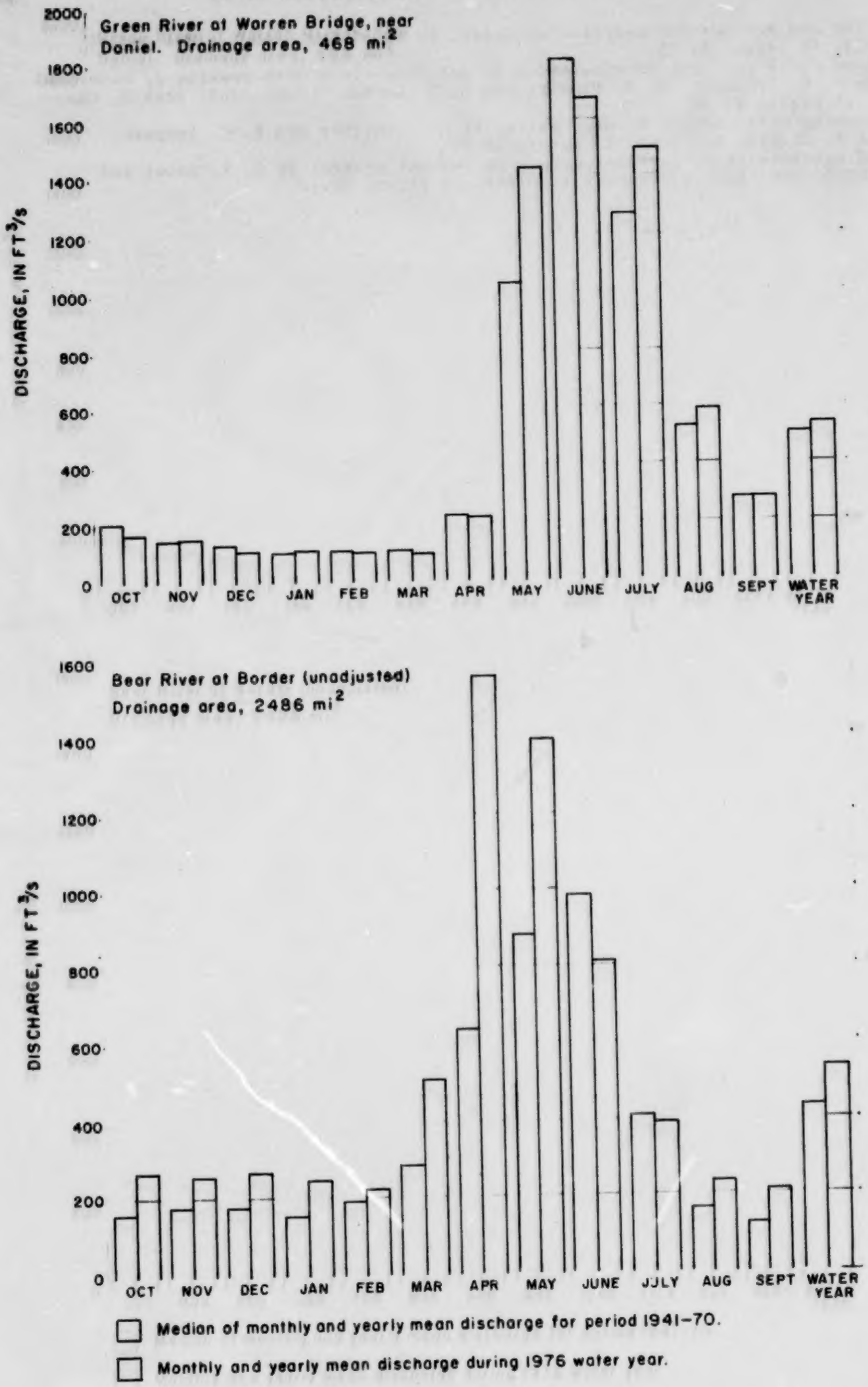

Figure 3.—Discharge during 1976 water year compared with median discharge for period 1941-70 for two representative gaging stations.

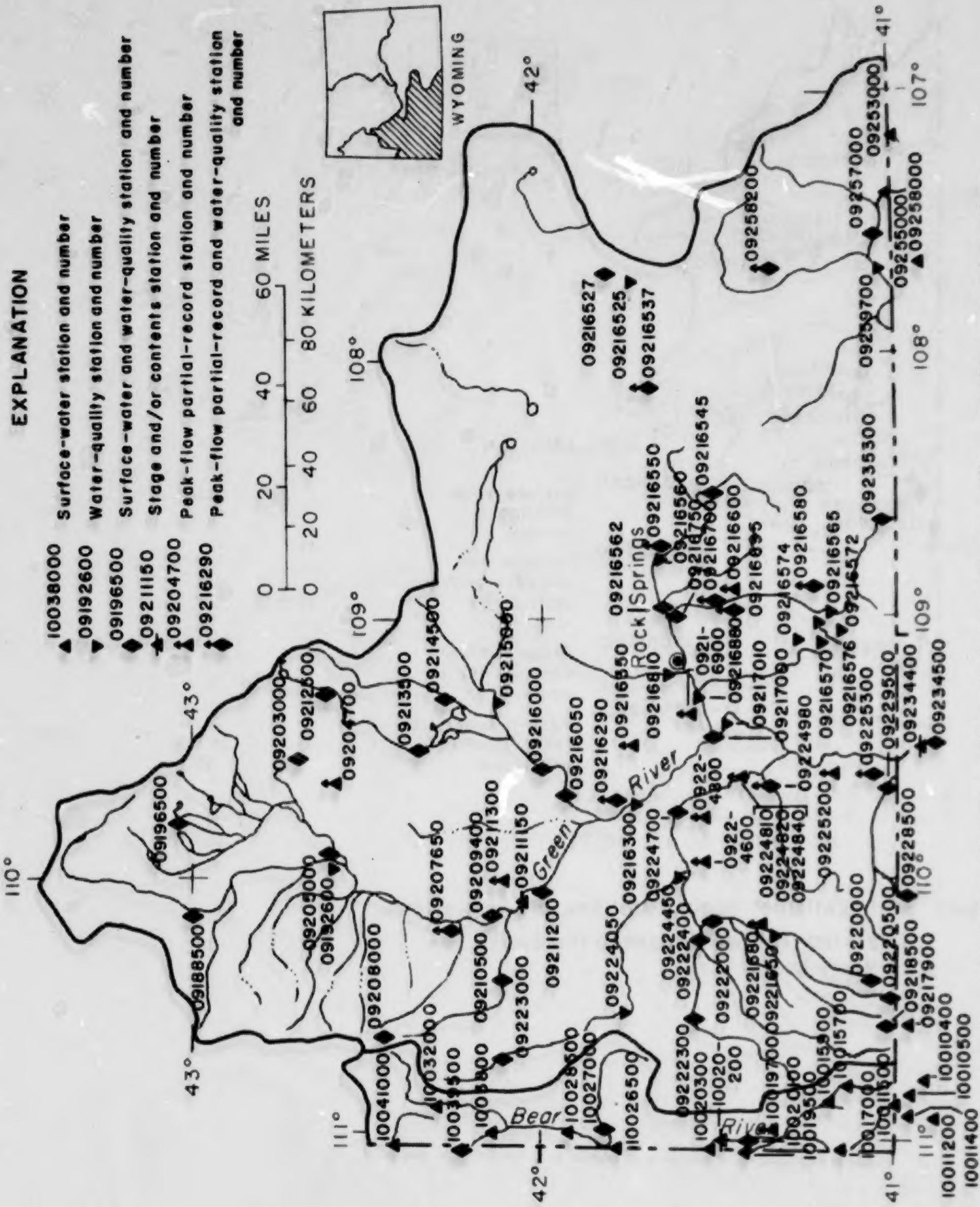
EXPLANATION
10038000 Surface-water station and number
09192600 Water-quality station and number
09196500 Surface-water and water-quality station and number
09211150 Stage and/or contents station and number
09204700 Peak-flow partial-record station and number
09216290 Peak-flow partial-record and water-quality station and number
0 20 40 60 MILES
0 20 40 60 80 KILOMETERS
WYOMING
Green
River
Bear
River
Rock Springs
111°
110°
109°
108°
107°
43°
42°
41°
09188500
09196500
09192600
09205000
09208000
09207650
09209400
09211300
09211150
09211200
09210500
09223000
10032000
10038000
10041000
10028500
10027000
10026500
09224050
09203000
09212500
09204700
09213500
09214500
09215000
09216000
09216050
09216290
09216300
09224700
09216550
09216810
09216562
09216550
09216545
09216527
09216525
09216537
09258200
09257000
09253000
09255000
09258000
09258700
09235300
09234400
09234500
09229500
09228500
09225300
09225200
09224980
09217010
09217000
09216900
09216880
09216570
09216576
09216572
09216565
09216574
09216580
09216595
09216600
09216700
09216750
09216560
09224450
09224400
09222000
09221680
09221650
09222300
10020300
10020200
10019700
10015800
10015700
10017000
10011500
10011200
10011400
10010400
10010500
09220000
09220500
09218500
09217900
09224810
09224820
09224840
09224600
09224800

Figure 4.—Location of gaging stations and peak-flow partial-record stations in the Green River and Bear River basins.

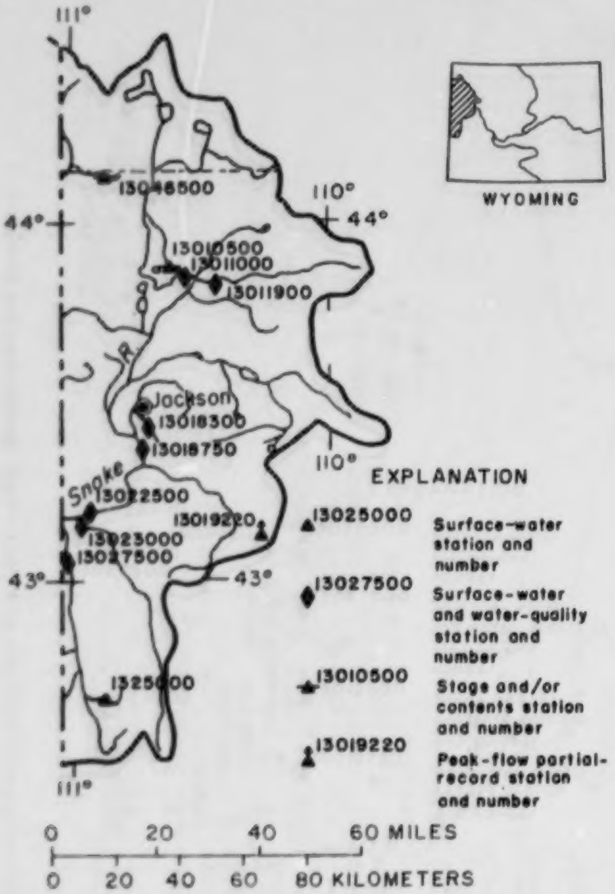
111°
13046500
110°
44°
44°
13010500
13011000
13011900
R
Jackson
13018300
13018750
110°
Snake
13022500
13019220
13023000
13027500
43°
43°
1325000
111°
WYOMING
EXPLANATION
13025000 Surface-water station and number
13027500 Surface-water and water-quality station and number
13010500 Stage and/or contents station and number
13019220 Peak-flow partial-record station and number
0 20 40 60 MILES
0 20 40 60 80 KILOMETERS

Figure 5.—Location of gaging stations and peak-flow partial-record stations in the Snake River basin.

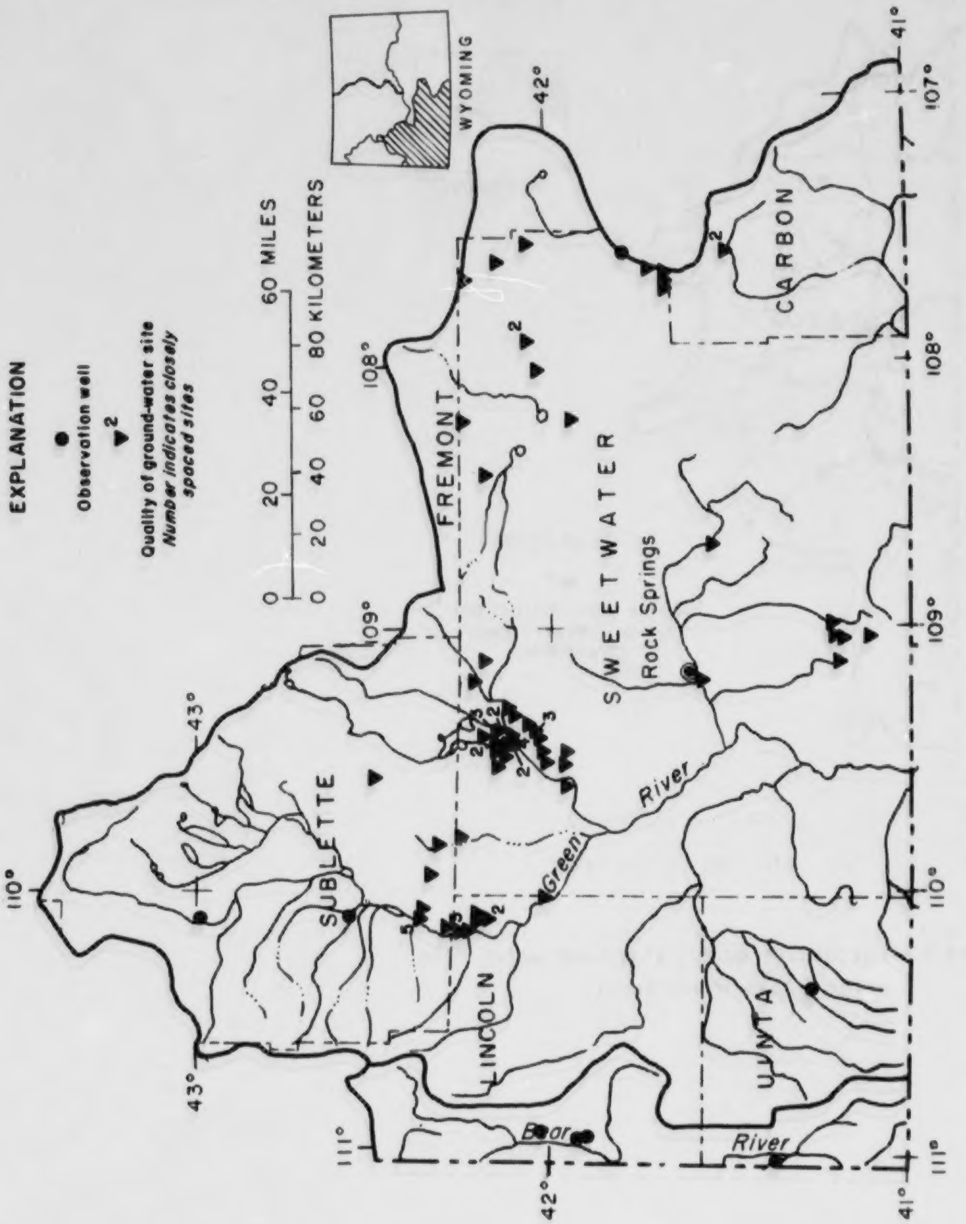
EXPLANATION
●
Observation well
▼2
Quality of ground-water site
Number indicates closely spaced sites
0 20 40 60 MILES
0 20 40 60 80 KILOMETERS
WYOMING
SUBLETTE
LINCOLN
UINTA
FREMONT
SWEETWATER
CARBON
Rock Springs
Green River
Bear River
43°
42°
41°
111°
110°
109°
108°
107°

Figure 6.—Location of observation wells and quality of ground-water sites in the Green River and Bear River basins.

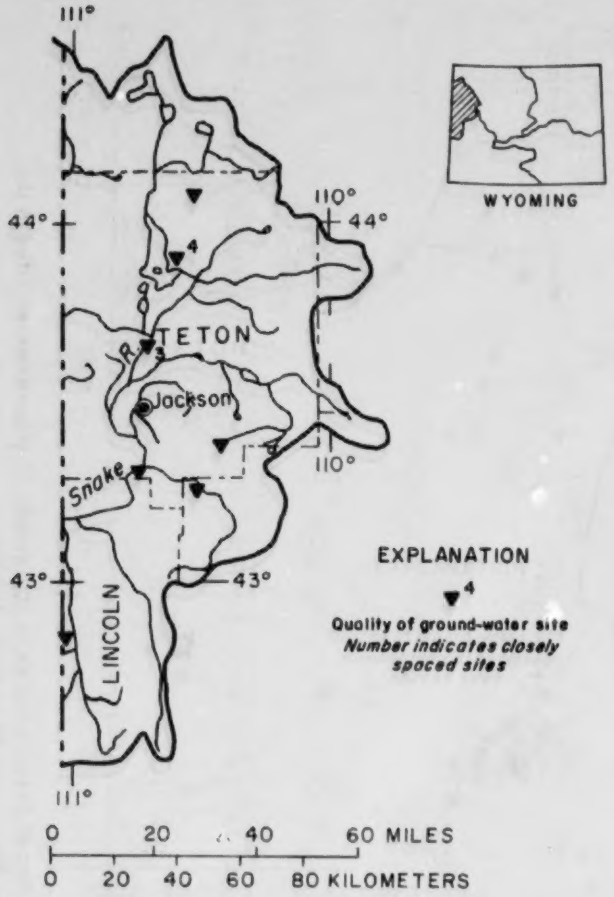
111°
110°
44°
44°
110°
43°
43°
111°
TETON
R.
Jackson
Snake
LINCOLN
4
3
WYOMING
EXPLANATION
▼4
Quality of ground-water site
Number indicates closely spaced sites
0
20
40
60 MILES
0
20
40
60
80 KILOMETERS

Figure 7.—Location of quality of ground-water sites in the Snake River basin.

GREEN RIVER BASIN

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY

LOCATION.--Lat 43°01'08", long 110°07'03", in SE¼SE¼NE¼ sec.8, T.35 N., R.111 W., Sublette County, Hydrologic Unit 14040101, on left bank 100 ft (30 m) upstream from bridge on U.S. Highways 187 and 189, 3.4 mi (5.5 km) upstream from Beaver Creek, and 12 mi (19 km) north of Daniel.

DRAINAGE AREA.--468 mi² (1,212 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 979: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 7,468.09 ft (2,276.274 m) above mean sea level.

REMARKS.--Records good except those for winter period and periods of no gage-height record, Dec. 23 to Mar 31, Apr. 4 to May 4, which are poor. Diversions above station for irrigation of about 10,200 acres (41.3 km²), of which about 6,100 acres (24.7 km²) lies below station.

AVERAGE DISCHARGE.--45 years, 516 ft³/s (14.61 m³/s), 373,800 acre-ft/yr (461 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,840 ft³/s (137 m³/s) June 9, 1972, gage height, 5.77 ft (1.759 m); minimum recorded, 31 ft³/s (0.88 m³/s) Nov. 26, 1933, gage height, 0.70 ft (0.213 m), from rating curve extended below 120 ft³/s (3.40 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,590 ft³/s (73.3 m³/s) June 10, 11, gage height, 4.51 ft (1.375 m); minimum daily, 80 ft³/s (2.27 m³/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	180	105	100	125	100	120	350	1780	1490	906	334
2	155	190	105	95	120	95	130	400	1820	1810	1150	323
3	152	200	110	100	120	93	130	500	1910	1920	1390	308
4	158	194	110	105	110	90	140	650	2030	1860	1190	300
5	147	188	110	105	100	90	150	761	2110	1760	920	295
6	145	190	110	105	95	90	160	831	2180	1860	785	293
7	145	192	115	100	95	95	160	831	2300	1890	711	301
8	160	185	115	105	90	100	170	975	2430	1970	647	316
9	165	113	120	105	90	100	190	1070	2500	2010	602	308
10	164	140	120	100	90	105	190	1100	2540	2050	565	298
11	166	150	120	95	95	105	210	1370	2560	2080	537	282
12	172	160	120	95	105	105	240	1380	2390	2090	515	284
13	211	170	115	95	105	100	260	1180	2050	2010	488	287
14	215	180	110	95	105	95	250	1360	1600	1880	467	289
15	193	180	110	100	105	95	250	1790	1270	1710	458	290
16	183	170	110	110	100	95	250	1610	1110	1440	464	282
17	185	160	110	120	100	100	240	1450	1060	1260	466	274
18	183	150	110	120	100	110	230	1650	1290	1250	446	276
19	181	140	110	120	95	110	230	1960	1330	1290	446	292
20	175	130	110	120	95	115	230	2060	1170	1400	431	296
21	170	130	110	120	90	110	250	2160	1280	1310	428	282
22	171	135	110	120	80	110	270	2310	1590	1160	427	274
23	173	135	110	120	85	100	270	2290	1710	1060	437	288
24	166	135	110	120	90	100	270	2120	1590	1010	458	281
25	143	130	115	115	95	105	290	1940	1340	980	495	269
26	149	120	115	110	100	100	290	1710	1150	1010	491	262
27	170	110	120	110	100	95	280	1600	1010	1070	461	258
28	180	100	110	115	100	100	290	1670	967	1030	431	250
29	170	95	110	120	100	105	300	1780	1030	964	393	239
30	160	100	110	125	---	110	320	1870	1190	875	364	229
31	170	---	105	130	---	110	---	1830	---	851	347	---
TOTAL	5227	4552	3470	3395	2880	3133	6760	44558	50287	46350	18316	8560
MEAN	169	152	112	110	99.3	101	225	1437	1676	1495	591	285
MAX	215	200	120	130	125	115	320	2310	2560	2090	1390	334
MIN	143	95	105	95	80	90	120	350	967	851	347	229
AC-FT	10370	9030	6880	6730	5710	6210	13410	88380	99740	91940	36330	16980

CAL YR 1975 TOTAL 191642 MEAN 525 MAX 3750 MIN 91 AC-FT 380100
WTR YR 1976 TOTAL 197488 MEAN 540 MAX 2560 MIN 80 AC-FT 391700

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-64, 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT											
08...	1115	158	405	--	7.5	1	--	--	--	--	--
23...	1415	175	480	--	3.0	1	10.6	--	B1	250	130
NOV											
04...	1010	181	450	--	.0	1	--	--	--	--	--
21...	1500	A130	490	--	.5	1	10.5	--	B1	280	150
DEC											
02...	0900	A105	440	--	.0	0	--	--	--	--	--
21...	1430	A110	540	--	.5	1	9.7	--	B1	290	150
JAN											
23...	1430	A120	600	--	.0	1	10.0	--	B1	290	160
24...	0845	A120	510	--	.0	1	--	--	--	--	--
FEB											
20...	1300	A95	530	--	.0	1	10.1	--	B1	300	170
MAR											
03...	1200	A93	120	--	.0	1	--	--	--	--	--
23...	1030	A180	580	--	.0	2	10.4	--	B1	300	170
31...	1350	A110	570	--	.0	1	--	--	--	--	--
APR											
24...	1140	A270	410	--	1.0	3	10.6	--	B1	200	86
MAY											
04...	0900	652	365	--	4.5	6	--	--	--	--	--
25...	1700	1880	240	--	8.5	6	--	--	--	--	--
28...	1510	1720	170	--	11.5	5	9.0	--	B9	120	31
JUN											
19...	1030	1360	290	8.2	12.0	5	8.3	.5	--	--	--
22...	1735	1660	200	--	11.0	6	--	--	--	--	--
28...	1545	983	260	--	16.0	1	8.2	--	B10	130	44
JUL											
07...	1530	1930	395	--	15.5	4	--	--	--	--	--
25...	1700	975	180	--	20.0	1	7.5	--	B5	73	28
27...	1500	1080	140	--	17.5	1	--	--	--	--	--
AUG											
21...	1700	429	225	8.7	19.0	1	9.9	8.2	--	130	64
22...	1630	424	260	--	19.5	0	7.2	--	B6	130	74
31...	1640	342	200	--	17.0	0	--	--	--	--	--
SEP											
19...	1645	292	330	--	13.0	1	7.8	--	B2	160	87
23...	1215	292	290	--	15.0	2	--	--	--	--	--

A Daily mean discharge. B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	74	15	3.5	.1	1.1	143	--	117	130	2.7	.2
NOV											
04...	--	--	--	--	--	--	--	--	--	--	--
21...	86	17	4.2	.1	1.2	163	--	134	160	.7	.4
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
21...	84	19	4.4	.1	1.3	164	--	135	150	1.4	.3
JAN											
23...	88	17	4.6	.1	1.2	159	--	130	170	1.9	.4
24...	--	--	--	--	--	--	--	--	--	--	--
FEB											
20...	90	19	5.1	.1	1.5	166	--	136	170	.9	.3
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
23...	89	19	4.8	.1	1.6	161	--	132	160	1.4	.3
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
24...	59	13	4.1	.1	2.0	140	--	115	96	1.2	.3
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
28...	35	8.9	2.5	.1	1.0	114	--	94	35	.9	.2
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
28...	36	8.7	2.2	.1	.9	100	--	82	53	1.2	.2
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
25...	22	4.3	1.6	.1	.7	54	--	44	33	.6	.1
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	39	8.1	3.5	.1	2.3	81	0	66	69	2.4	.2
22...	39	7.7	2.2	.1	1.0	67	--	55	67	1.0	.3
31...	--	--	--	--	--	--	--	--	--	--	--
SEP											
19...	44	11	3.3	.1	1.1	83	--	68	88	1.0	.2
23...	--	--	--	--	--	--	--	--	--	--	--

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	4.2	--	301	.41	142	--	--	.02	--	--	--
NOV											
04...	--	--	--	--	--	--	--	--	--	--	--
21...	5.0	--	356	.48	125	--	--	.15	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
21...	6.2	--	348	.47	103	--	--	.02	--	--	--
JAN											
23...	6.3	--	368	.50	119	--	--	.03	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
FEB											
20...	6.6	--	376	.51	96.4	--	--	.08	--	--	--
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
23...	7.1	--	363	.49	98.0	--	--	.12	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
24...	4.9	--	250	.34	182	--	--	.01	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
28...	3.8	150	144	.20	669	27	--	.08	--	--	--
JUN											
19...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
28...	3.0	--	155	.21	411	--	--	.06	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
25...	2.0	--	91	.12	240	--	--	.02	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	1.8	--	167	.23	193	--	.06	.02	.30	.16	.69
22...	1.6	--	153	.21	175	--	--	.00	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
SEP											
19...	3.0	--	193	.26	152	--	--	.08	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	2
23...	--	--	--	--	--	--	--	--	--	--	--
NOV											
04...	--	--	--	--	--	--	--	--	--	--	4
21...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	4
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
23...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	11
FEB											
20...	--	--	--	--	.00	--	--	--	--	--	--
MAR											
03...	--	--	--	--	--	--	--	--	--	--	2
23...	--	--	--	--	.02	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	10
APR											
24...	--	--	--	--	.03	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	28
25...	--	--	--	--	--	--	--	--	--	--	32
28...	--	--	--	--	.02	--	--	--	--	--	--
JUN											
19...	--	--	--	--	--	--	--	--	1100	4.9	--
22...	--	--	--	--	--	--	--	--	--	--	31
28...	--	--	--	--	.01	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	216
25...	--	--	--	--	.01	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	14
AUG											
21...	1.0	.99	2.0	1.1	.02	.03	.00	.00	1100	2.6	--
22...	--	--	--	--	.01	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	29
SEP											
19...	--	--	--	--	.00	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	6

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
OCT										
08...	.85	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	2.0	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
DEC										
02...	1.1	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
JAN										
23...	--	--	--	--	--	--	--	--	--	--
24...	3.6	--	--	--	--	--	--	--	--	--
FEB										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	.50	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
31...	3.0	52	--	--	--	--	--	--	--	--
APR										
24...	--	--	--	--	--	--	--	--	--	--
MAY										
04...	49	60	--	--	--	--	--	--	--	--
25...	162	74	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JUN										
19...	--	--	--	--	--	--	--	--	--	--
22...	139	50	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	1130	11	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
27...	41	13	--	--	--	--	--	--	--	--
AUG										
21...	--	--	3.38	12.4	233	12.0	.030	.015	.032	.000
22...	--	--	--	--	--	--	--	--	--	--
31...	27	54	--	--	--	--	--	--	--	--
SEP										
19...	--	--	--	--	--	--	--	--	--	--
23...	4.7	47	--	--	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ANTI-MONY (SB) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT										
23...	1415	20	0	1	0	20	0	0	1	120
NOV										
21...	1500	--	--	--	--	30	--	--	--	--
DEC										
21...	1430	--	--	--	--	30	--	--	--	--
JAN										
23...	1430	--	--	--	--	30	--	--	--	--
AUG										
21...	1700	--	--	--	--	20	--	--	--	30

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT									
23...	3	4	0	.7	1	3	0	.4	0
NOV									
21...	--	--	--	--	--	--	--	--	--
DEC									
21...	--	--	--	--	--	--	--	--	--
JAN									
23...	--	--	--	--	--	--	--	--	--
AUG									
21...	--	--	20	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
MAY									
28...	1510	<1.9	1.6	2.7	1.5	2.2	1.3	.06	.40

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
AUG									
31...	1640	342	17.0	1	4	8	19	38	65

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSIS

DATE	JUN 19,76	AUG 21,76
TIME	1030	1700
TOTAL CELLS/ML	1100	1100
DIVERSITY: DIVISION	0.0	0.4
.CLASS	0.0	0.4
..ORDER	0.1	0.4
...FAMILY	2.6	1.2
....GENUS	2.8	1.9

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	18	2	--	-
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	92	9	--	-
....COCCONEIS	55	6	--	-
...CYMBELLACEAE				
....AMPHORA	18	2	--	-
....CYMBELLA	18	2	--	-
...DIATOMACEAE				
....DIATOMA	92	9	--	-
...FRAGILARIACEAE				
....ASTERIONELLA	--	-	210#	20
....FRAGILARIA	350#	33	580#	55
...GOMPHONEMATACEAE				
....GOMPHONEMA	110	11	--	-
...NAVICULACEAE				
....NAVICULA	180#	17	120	12
...NITZSCHIACEAE				
....HANTZSCHIA	--	-	15	2
....NITZSCHIA	150	14	59	6
CYANOPHYTA (BLUE-GREEN ALGAE)				
.MYXOPHYCEAE				
..OSCILLATORIALES				
...OSCILLATORIACEAE				
....OSCILLATORIA	--	-	74	8

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JUNE 19, 1976
1030 HOURS

IDENTIFICATION OF PERIPHYTON

```
 _ORGANISM__NAME_______________  _COMMON__NAME______

  CHLOROPHYTA                     GREEN ALGAE
  .CHLOROPHYCEAE
  ..ULOTRICHALES
  ...ULOTRICHACEAE
O ....ULOTHRIX
  CHRYSOPHYTA
  .BACILLARIOPHYCEAE              DIATOMS
  ..PENNALES                      PENNATE
  ...ACHNANTHACEAE
O ....ACHNANTHES
O ....COCCONEIS
  ...CYMBELLACEAE
O ....CYMBELLA
O ....EPITHEMIA
O ....RHOPALODIA
  ...DIATOMACEAE
E ....DIATOMA
  ...FRAGILARIACEAE
O ....FRAGILARIA
O ....HANNAEA
O ....SYNEDRA
  ...GOMPHONEMATACEAE
O ....GOMPHONEMA
  ...NAVICULACEAE                 NAVICULOID
O ....CALONEIS
E ....NAVICULA
O ....PINNULARIA
  ...NITZSCHIACEAE
O ....DENTICULA
O ....HANTZSCHIA
O ....NITZSCHIA
  ...SURIRELLACEAE
O ....CYMATOPLEURA
O ....SURIRELLA
  ...TABELLARIACEAE
O ....TABELLARIA
  CYANOPHYTA                      BLUE-GREEN ALGAE
  .MYXOPHYCEAE
  ..OSCILLATORIALES               FILAMENTOUS
  ...OSCILLATORIACEAE
O ....OSCILLATORIA
```

AUG. 21, 1976
1700 HOURS

IDENTIFICATION OF PERIPHYTON

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 _ORGANISM__NAME_______________  _COMMON__NAME______

  CHLOROPHYTA                     GREEN ALGAE
  .CHLOROPHYCEAE
  ..OEDOGONIALES
  ...OEDOGONIACEAE
O ....OEDOGONIUM
  ..ULOTRICHALES
  ...CHAETOPHORACEAE
O ....STIGEOCLONIUM
  ...ULOTRICHACEAE
O ....ULOTHRIX
  CHRYSOPHYTA
  .BACILLARIOPHYCEAE              DIATOMS
  ..PENNALES                      PENNATE
  ...ACHNANTHACEAE
E ....ACHNANTHES
E ....COCCONEIS
O ....RHOICOSPHENIA
  ...CYMBELLACEAE
O ....CYMBELLA
O ....EPITHEMIA
  ...DIATOMACEAE
O ....DIATOMA
  ...FRAGILARIACEAE
O ....FRAGILARIA
O ....SYNEDRA
  ...GOMPHONEMATACEAE
O ....GOMPHONEMA
  ...NAVICULACEAE                 NAVICULOID
O ....NAVICULA
O ....NEIDIUM
O ....PINNULARIA
  ...NITZSCHIACEAE
O ....NITZSCHIA
  ...TABELLARIACEAE
O ....TABELLARIA
  CYANOPHYTA                      BLUE-GREEN ALGAE
  .MYXOPHYCEAE
  ..OSCILLATORIALES               FILAMENTOUS
  ...OSCILLATORIACEAE
O ....LYNGBYA
O ....OSCILLATORIA
NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
      O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
      SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
      ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE
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09192600 GREEN RIVER NEAR BIG PINEY, WY

LOCATION.--Lat 42°34'14", long 109°56'58", in NE¼NE¼NE¼ sec.21, T.30 N., R.110 W., Sublette County, Hydrologic Unit 14040101, at bridge on State Secondary Highway 1801, 1.9 mi (3.1 km) upstream from New Fork River, 8.4 mi (13.5 km) northeast of Big Piney, and 16.2 mi (26.1 km) southwest of Boulder.

DRAINAGE AREA.--1,260 mi² (3,260 km²), approximately.

PERIOD OF RECORD.--Water years 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT									
09...	1400	209	550	7.0	2	240	100	67	18
NOV									
04...	1230	366	450	3.5	1	240	68	65	18
DEC									
02...	1615	243	500	.5	1	280	100	80	19
JAN									
24...	1315	175	620	.0	2	280	110	82	19
MAR									
03...	1750	197	220	.0	1	280	110	80	19
31...	1640	236	500	.0	--	270	90	79	19
MAY									
04...	1550	2080	400	10.0	50	200	28	56	15
24...	1700	4490	335	10.5	30	160	12	42	13
JUL									
07...	0700	1510	250	16.5	6	140	17	38	11
29...	0800	484	200	16.0	1	120	22	33	9.2
SEP									
01...	1120	375	310	14.5	0	140	50	41	9.8

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT									
09...	19	.5	1.2	170	0	139	120	4.7	.3
NOV									
04...	9.9	.3	.9	210	0	172	92	1.8	.3
DEC									
02...	8.8	.2	1.6	220	0	180	110	3.5	.4
JAN									
24...	7.0	.2	1.6	210	0	172	120	1.7	.4
MAR									
03...	7.0	.2	1.4	210	0	172	120	1.7	.3
31...	7.0	.2	1.2	220	0	180	100	1.7	.3
MAY									
04...	9.9	.3	2.3	210	0	172	51	3.6	.2
24...	9.4	.3	1.9	180	0	148	36	1.8	.1
JUL									
07...	8.2	.3	1.4	150	0	123	30	1.9	.3
29...	4.7	.2	2.1	120	0	98	33	.0	.1
SEP									
01...	5.9	.2	1.2	110	0	90	60	1.8	.3

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT									
09...	4.7	320	.44	181	.02	.00	2	1.1	--
NOV									
04...	6.5	296	.40	293	.00	.00	8	7.9	--
DEC									
02...	6.2	340	.46	223	.00	.01	12	7.9	--
JAN									
24...	8.0	341	.46	161	.07	.01	9	4.3	--
MAR									
03...	7.5	336	.46	179	.05	.01	4	2.1	--
31...	7.7	327	.44	208	.05	.01	40	25	23
MAY									
04...	8.5	252	.34	1420	.05	.18	406	2280	48
24...	6.1	197	.27	2390	.09	.15	101	2200	49
JUL									
07...	5.7	171	.23	697	.00	.01	32	130	50
29...	2.6	142	.19	186	.07	.01	11	14	62
SEP									
01...	2.5	177	.24	179	.02	.00	24	24	48

09196500 PINE CREEK ABOVE FREMONT LAKE, WY

LOCATION.--Lat 43°01'50", long 109°46'10", in S½ sec.5, T.35 N., R.108 W., Sublette County, Hydrologic Unit 14040102, Bridger National Forest, on right bank 0.5 mi (0.8 km) upstream from Fremont Lake, 0.5 mi (0.8 km) downstream from Fremont Creek, and 12 mi (19 km) northeast of Pinedale.

DRAINAGE AREA.--75.8 mi² (196.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year.

REVISED RECORDS.--WSP 1443: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,540 ft (2,298 m), from topographic map.

REMARKS.--Records good except those for winter period and period of no gage-height record, Aug. 1-31, which are poor. No diversion above station.

AVERAGE DISCHARGE.--22 years, 180 ft³/s (5.098 m³/s), 130,400 acre-ft/yr (161 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s (72.2 m³/s) June 16, 1959, gage height, 7.15 ft (2.179 m); minimum daily, 6.0 ft³/s (0.17 m³/s) Dec. 19, 20, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (22.7 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 7	0300	*1,390	39.4	5.89	1.795	July 2	0300	1,250	35.4	5.70	1.737
June 22	0600	861	24.4	5.13	1.564						

Minimum daily discharge, 14 ft³/s (0.40 m³/s) Feb. 1-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	36	34	19	14	20	16	49	696	1110	350	96
2	30	36	35	18	14	19	16	58	800	1140	420	90
3	29	35	35	18	14	23	17	71	924	904	350	87
4	27	35	37	18	14	25	17	83	1000	930	290	84
5	27	35	36	19	14	25	20	89	1090	1000	240	82
6	26	34	35	19	14	25	21	97	1190	1000	220	80
7	26	34	36	19	14	24	22	106	1300	963	200	79
8	28	34	35	19	14	23	24	127	1230	1010	190	76
9	26	32	34	21	15	22	26	151	1170	963	180	73
10	25	33	34	21	16	21	29	210	1180	943	170	72
11	25	32	33	23	16	20	35	246	1090	904	160	71
12	26	30	33	24	16	18	39	213	777	842	150	72
13	28	31	32	24	16	17	37	214	576	777	140	70
14	30	30	30	25	15	18	38	280	431	668	140	68
15	30	30	30	25	16	17	38	359	344	570	145	70
16	31	29	29	25	16	17	37	284	324	519	140	73
17	31	28	29	24	17	17	36	266	305	488	140	74
18	32	28	29	24	18	17	36	355	320	524	135	77
19	33	27	28	22	18	17	35	461	336	607	130	77
20	33	25	28	20	19	17	33	584	399	534	130	77
21	33	22	27	19	19	17	34	677	618	435	135	76
22	34	23	26	19	19	16	35	668	818	386	135	75
23	33	24	25	20	18	16	34	613	696	364	140	74
24	34	24	25	19	18	16	36	607	540	352	150	73
25	33	23	24	18	17	16	39	550	460	348	150	72
26	35	22	22	18	17	16	38	469	390	369	140	70
27	39	24	22	18	17	16	38	508	386	395	130	68
28	40	26	21	17	17	16	37	674	498	348	120	66
29	38	28	21	16	19	16	38	765	691	289	110	64
30	37	30	20	15	---	16	41	737	867	252	110	62
31	36	---	20	15	---	16	---	696	---	234	105	---
TOTAL	967	880	905	621	471	579	942	11267	21446	20168	5445	2248
MEAN	31.2	29.3	29.2	20.0	16.2	18.7	31.4	363	715	651	176	74.9
MAX	40	36	37	25	19	25	41	765	1300	1140	420	96
MIN	25	22	20	15	14	16	16	49	305	234	105	62
AC-FT	1920	1750	1800	1230	934	1150	1870	22350	42540	40000	10800	4460

CAL YR 1975 TOTAL 66374.1 MEAN 182 MAX 1780 MIN 8.9 AC-FT 131700
WTR YR 1976 TOTAL 65939.0 MEAN 180 MAX 1300 MIN 14 AC-FT 130800

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT										
07...	1050	26	22	--	8.5	1	--	--	--	--
NOV										
05...	1030	34	24	--	2.5	1	--	--	--	--
JAN										
20...	1000	A20	23	--	.5	0	--	--	--	--
MAR										
04...	1040	A25	25	--	.0	1	--	--	--	--
APR										
08...	1005	22	20	--	.5	0	--	--	--	--
MAY										
12...	1020	208	23	--	1.5	1	--	--	15	6
JUN										
02...	1710	800	19	--	6.0	2	--	--	8	0
19...	1300	328	230	7.5	15.0	1	8.1	.8	--	--
23...	1130	708	19	--	5.5	1	--	--	15	0
JUL										
08...	1030	1040	16	--	9.0	1	--	--	--	--
22...	1230	390	10	--	12.5	--	--	--	--	--
AUG										
11...	1145	A160	<50	7.5	13.0	0	7.2	--	8	0
31...	1230	102	12	--	14.0	--	--	--	6	1

A Daily mean discharge.

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT										
07...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
MAY										
12...	4.1	1.2	1.4	.2	.6	11	--	9	4.9	.4
JUN										
02...	2.7	.3	.4	.1	.7	17	--	14	1.8	.4
19...	--	--	--	--	--	--	--	--	--	--
23...	5.4	.3	.3	.0	.4	18	--	15	7.4	1.1
JUL										
08...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	3.0	.1	.5	.1	.4	10	0	8	1.6	.3
31...	2.1	.1	.3	.1	.3	6	--	5	2.0	.5

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT										
07...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
MAY										
12...	.1	2.5	21	.03	11.8	--	.11	--	--	--
JUN										
02...	.1	2.6	17	.02	36.7	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
23...	.0	2.2	26	.04	49.7	--	--	--	--	--
JUL										
08...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	.0	1.0	12	.02	5.18	.02	.01	.00	.00	.00
31...	.1	.6	9	.01	2.48	--	.10	--	--	--

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT										
07...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
MAY										
12...	--	--	--	--	--	--	--	--	10	120
JUN										
02...	--	--	--	--	--	--	--	--	0	60
19...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	0	60
JUL										
08...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	.00	.00	.00	.02	.01	.00	.01	.03	0	40
31...	--	--	--	--	--	--	--	--	4	30

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)
OCT									
07...	--	--	--	1	.07	--	--	--	--
NOV									
05...	--	--	--	2	.18	--	--	--	--
JAN									
20...	--	--	--	7	.38	--	--	--	--
MAR									
04...	--	--	--	2	.13	--	--	--	--
APR									
08...	--	--	--	7	.42	32	--	--	--
MAY									
12...	--	--	--	4	2.2	69	--	--	--
JUN									
02...	--	--	--	6	13	64	--	--	--
19...	--	1100	1.5	--	--	--	--	--	--
23...	--	--	--	8	15	69	--	--	--
JUL									
08...	--	--	--	13	37	41	--	--	--
22...	--	--	--	8	8.4	63	--	--	--
AUG									
11...	5	1800	.6	11	4.8	--	438	.210	.000
31...	--	--	--	12	3.3	45	--	--	--

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
AUG										
31...	1230	102	14.0	100	3	10	19	30	48	74

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUN 19,76	AUG 11,76
TIME	1300	1145
TOTAL CELLS/ML	1100	1800
DIVERSITY: DIVISION	0.6	0.4
.CLASS	0.7	0.4
..ORDER	0.7	0.4
...FAMILY	0.7	0.4
....GENUS	0.7	0.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....DICTYOSPHAERIUM	960#	87	--	-
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	9	1	--	-
..PENNALES				
...CYMBELLACEAE				
....CYMBELLA	*	0	--	-
...FRAGILARIACEAE				
....ASTERIONELLA	--	-	1600#	93
...TABELLARIACEAE				
....TABELLARIA	74	7	--	-
.CHRYSOPHYCEAE				
..CHRYSOMONADALES				
...OCHROMONADACEAE				
....DINOBRYON	57	6	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
.MYXOPHYCEAE				
..CHROOCOCCALES				
...CHROOCOCCACEAE				
....ANACYSTIS	--	-	130	8

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON ANALYSES

JUNE 19, 1976
1300 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...FRAGILARIACEAE	
O	....FRAGILARIA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...TABELLARIACEAE	
E	....TABELLARIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09196500 PINE CREEK ABOVE FREMONT LAKE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

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                              AUG. 11, 1976
                               1145 HOURS

                      IDENTIFICATION OF PERIPHYTON

   _ORGANISM__NAME______________   _COMMON__NAME_____

   CHLOROPHYTA                      GREEN ALGAE
   .CHLOROPHYCEAE
   ..ZYGNEMATALES
   ...DESMIDIACEAE                  PLACODERM DESMIDS
O  ....COSMARIUM
   CHRYSOPHYTA
   .BACILLARIOPHYCEAE               DIATOMS
   ..PENNALES                       PENNATE
   ...FRAGILARIACEAE
O  ....H.ARCUS
   ..CENTRALES                      CENTRIC
   ...COSCINODISCACEAE
O  ....CYCLOTELLA
O  ....MELOSIRA
   ..PENNALES                       PENNATE
   ...ACHNANTHACEAE
O  ....ACHNANTHES
O  ....COCCONEIS
   ...CYMBELLACEAE
O  ....CYMBELLA
   ...DIATOMACEAE
O  ....DIATOMA
   ...FRAGILARIACEAE
E  ....ASTERIONELLA
O  ....FRAGILARIA
   ...GOMPHONEMATACEAE
O  ....GOMPHONEMA
   ...MERIDIONACEAE
O  ....MERIDION
   ...NAVICULACEAE                  NAVICULOID
O  ....FRUSTULIA
O  ....PINNULARIA
   ...TABELLARIACEAE
O  ....TABELLARIA
   CYANOPHYTA                       BLUE-GREEN ALGAE
   .MYXOPHYCEAE
   ..OSCILLATORIALES                FILAMENTOUS
   ...OSCILLATORIACEAE
O  ....OSCILLATORIA

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
      O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
      ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE
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BENTHIC INVERTEBRATE ANALYSES

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DATE                               AUG 11,76
TIME                                 1145

TOTAL COUNT                           102

DIVERSITY: PHYLUM                     0.0
           .CLASS                     0.0
           ..ORDER                    1.1
           ...FAMILY                  1.7
           ....GENUS                  0.0
           ....GENUS-INSECTA          0.0

 ORGANISM                            COUNT

ARTHROPODA (ARTHROPODS)
.INSECTA
..COLEOPTERA
...ELMIDAE
....OPTIOSERVUS                         1
...HYDROPHILIDAE
....AMETOR                              1
..DIPTERA
...CHIRONOMIDAE
....CRICOTOPUS                          5
....RHEOTANYTARSUS                      2
..EPHEMEROPTERA
...BAETIDAE
....BAETIS                             13
...EPHEMERELLIDAE
....EPHEMERELLA                         6
..TRICHOPTERA
...HYDROPSYCHIDAE
....ARCTOPSYCHE                         1
...LEPIDOSTOMATIDAE
....LEPIDOSTOMA                         3
...LIMNEPHILIDAE
....UNKNOWN GENUS                      70
...UNKNOWN 110020305001000              2
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09203000 EAST FORK RIVER NEAR BIG SANDY, WY

LOCATION.--Lat 42°40', long 109°25', in sec.7, T.31 N., R.105 W., Sublette County, Hydrologic Unit 14040102, on left bank 1.0 mi (1.6 km) downstream from Jim Creek and 4.0 mi (6.4 km) northeast of Big Sandy.

DRAINAGE AREA.--79.2 mi^2 (205 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1967, published as East Fork near Big Sandy. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (2,377 m), by barometer.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--38 years, 104 ft^3/s (2.945 m^3/s), 75,350 acre-ft/yr (92.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft^3/s (50.7 m^3/s) June 11, 1965, gage height, 7.16 ft (2.182 m), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s) on basis of slope-area measurement at gage height 6.88 ft (2.097 m); minimum observed, 1.2 ft^3/s (0.034 m^3/s) Jan. 4, 1940 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft^3/s (19.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 21	unknown	938	26.6	[a]5.83	1.777	June 22	0600	712	20.2	5.42	1.652
June 7	0500	*1130	32.0	6.14	1.871	July 2	0500	712	20.2	5.42	1.652

[a] From floodmarks.

Minimum daily discharge, 6.0 ft^3/s (0.17 m^3/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	16	12	8.5	7.0	9.5	11	28	712	601	125	20
2	7.4	15	12	8.0	6.8	9.0	11	35	834	582	149	18
3	7.8	14	12	8.0	6.8	9.5	10	41	956	424	127	17
4	6.4	13	13	8.5	6.5	9.5	10	46	932	418	100	16
5	6.7	12	14	9.0	6.5	9.0	11	51	944	416	81	15
6	6.4	12	14	9.0	6.5	9.0	10	59	962	391	68	14
7	6.4	12	15	9.0	6.8	9.5	9.0	58	992	348	59	15
8	11	11	14	9.0	6.8	9.5	10	65	868	349	53	15
9	10	10	14	9.0	6.8	10	11	84	806	325	48	14
10	14	10	13	8.5	7.0	10	12	106	790	307	44	13
11	14	10	13	8.0	7.0	10	14	146	717	279	42	13
12	14	11	12	8.0	7.5	10	15	167	492	249	39	16
13	15	12	12	8.0	8.0	9.5	16	189	384	239	37	19
14	16	13	11	8.0	8.0	9.0	17	278	311	202	34	18
15	14	13	12	8.5	7.5	9.0	18	359	274	172	32	17
16	16	13	13	9.0	7.5	9.0	17	320	335	156	32	16
17	15	13	12	9.5	7.5	9.5	16	300	308	144	30	15
18	15	11	11	9.5	7.5	9.5	15	450	308	164	28	16
19	15	10	11	9.5	7.0	10	16	600	308	245	34	17
20	14	9.5	11	9.0	7.0	9.5	16	800	373	212	34	18
21	14	9.0	10	8.8	6.5	9.0	17	800	591	177	30	16
22	14	9.0	10	9.0	6.0	9.0	18	700	638	155	28	15
23	13	9.0	9.7	9.5	6.5	9.5	20	600	542	138	28	15
24	10	9.0	9.5	9.5	7.0	9.5	22	600	378	123	30	15
25	10	9.5	9.5	9.0	7.5	9.0	25	550	348	110	28	14
26	11	10	9.5	8.5	8.0	9.0	21	551	303	97	26	14
27	12	10	9.5	8.0	8.5	9.0	19	686	304	89	29	15
28	13	10	9.5	8.0	9.0	9.0	19	845	364	79	28	16
29	14	10	9.5	7.5	9.0	9.0	20	885	452	72	24	15
30	15	11	9.5	7.5	---	10	25	845	505	68	22	14
31	16	---	9.0	7.0	---	10	---	706	---	68	21	---
TOTAL	373.2	337.0	356.2	265.8	210.0	291.5	471.0	11950	17031	7399	1490	471
MEAN	12.0	11.2	11.5	8.57	7.24	9.40	15.7	385	568	239	48.1	15.7
MAX	16	16	15	9.5	9.0	10	25	885	992	601	149	20
MIN	6.4	9.0	9.0	7.0	6.0	9.0	9.0	28	274	68	21	13
AC-FT	740	668	707	527	417	578	934	23700	33780	14680	2960	934

CAL YR 1975 TOTAL 42633.3 MEAN 117 MAX 1160 MIN 4.9 AC-FT 84560
WTR YR 1976 TOTAL 40645.7 MEAN 111 MAX 992 MIN 6.0 AC-FT 80620

09203000 EAST FORK RIVER NEAR BIG SANDY, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965, 1969, October 1975 to September 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT											
06...	1715	6.4	62	--	10.0	2	--	--	--	--	--
NOV											
03...	1640	13	45	--	5.0	1	--	--	--	--	--
DEC											
02...	1320	A12	52	--	.0	1	--	--	--	--	--
JAN											
20...	0845	A9.0	49	--	.0	1	--	--	--	--	--
MAR											
04...	0930	A9.5	48	--	.0	1	--	--	--	--	--
APR											
08...	0840	A10	20	--	.0	1	--	--	--	--	--
30...	0945	22	56	--	3.5	2	--	--	28	1	6.8
MAY											
12...	0900	149	39	--	.0	1	--	--	--	--	--
25...	1015	534	27	--	2.0	1	--	--	--	--	--
JUN											
09...	0845	868	18	--	5.0	1	--	--	--	--	--
22...	0945	690	18	--	7.0	1	--	--	19	4	6.3
JUL											
08...	1410	342	13	--	12.0	1	--	--	--	--	--
23...	0950	142	<50	--	13.0	0	--	--	--	--	--
AUG											
21...	1500	29	80	6.8	19.0	1	9.3	5.3	32	9	9.8
30...	1810	22	22	--	19.5	1	--	--	12	0	3.5

A Daily mean discharge.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
JAN											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR											
04...	--	--	--	--	--	--	--	--	--	--	--
APR											
08...	--	--	--	--	--	--	--	--	--	--	--
30...	2.7	2.2	.2	1.2	33	--	27	3.0	1.2	.1	8.3
MAY											
12...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	--	--	--	--	--	--	--	--	--	--	--
22...	.8	.4	.0	.3	18	--	15	6.3	1.1	.1	3.6
JUL											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	1.9	4.2	.3	2.5	28	0	23	11	2.6	.1	4.6
30...	.7	.8	.1	.6	15	--	12	4.4	.2	.1	3.2

GREEN RIVER BASIN

09203000 EAST FORK RIVER NEAR BIG SANDY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
JAN											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR											
04...	--	--	--	--	--	--	--	--	--	--	--
APR											
08...	--	--	--	--	--	--	--	--	--	--	--
30...	47	.06	2.79	--	1.2	--	--	--	--	--	--
MAY											
12...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	--	--	--	--	--	--	--	--	--	--	--
22...	28	.04	52.2	--	--	--	--	--	--	--	--
JUL											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	52	.07	4.07	.02	.24	.02	.00	.68	.82	.70	.82
30...	21	.03	1.25	--	.04	--	--	--	--	--	--

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)
OCT										
06...	--	--	--	--	--	--	--	--	--	4
NOV										
03...	--	--	--	--	--	--	--	--	--	4
DEC										
02...	--	--	--	--	--	--	--	--	--	2
JAN										
20...	--	--	--	--	--	--	--	--	--	4
MAR										
04...	--	--	--	--	--	--	--	--	--	4
APR										
08...	--	--	--	--	--	--	--	--	--	5
30...	--	--	--	--	--	20	310	--	--	18
MAY										
12...	--	--	--	--	--	--	--	--	--	8
25...	--	--	--	--	--	--	--	--	--	4
JUN										
09...	--	--	--	--	--	--	--	--	--	14
22...	--	--	--	--	--	10	70	--	--	12
JUL										
08...	--	--	--	--	--	--	--	--	--	29
23...	--	--	--	--	--	--	--	--	--	3
AUG										
21...	.72	.02	.01	.01	.03	8	140	10	1.6	3
30...	--	--	--	--	--	10	120	--	--	37

DATE	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
OCT										
06...	.07	--	--	--	--	--	--	--	--	--
NOV										
03...	.14	--	--	--	--	--	--	--	--	--
DEC										
02...	.06	--	--	--	--	--	--	--	--	--
JAN										
20...	.18	--	--	--	--	--	--	--	--	--
MAR										
04...	.10	--	--	--	--	--	--	--	--	--
APR										
08...	.13	48	--	--	--	--	--	--	--	--
30...	.59	58	--	--	--	--	--	--	--	--
MAY										
12...	3.2	43	--	--	--	--	--	--	--	--
25...	5.8	40	--	--	--	--	--	--	--	--
JUN										
09...	33	66	--	--	--	--	--	--	--	--
22...	22	30	--	--	--	--	--	--	--	--
JUL										
08...	27	42	--	--	--	--	--	--	--	--
23...	1.2	46	--	--	--	--	--	--	--	--
AUG										
21...	.23	--	2.23	3.00	400	92.7	.030	.000	.003	.000
30...	2.2	54	--	--	--	--	--	--	--	--

09203000 EAST FORK RIVER NEAR BIG SANDY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
AUG										
30...	1810	22	19.5	100	2	7	14	34	55	75

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

AUG. 21, 1976
1500 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
O	....ANKISTRODESMUS	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....COSMARIUM	
	...ZYGNEMATACEAE	
O	....MOUGEOTIA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
E	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...EUNOTIACEAE	
O	....EUNOTIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED

SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09205000 NEW FORK RIVER NEAR BIG PINEY, WY

LOCATION.--Lat 42°34'02", long 109°55'46", in SE¼NE¼NE¼ sec.22, T.30 N., R.110 W., Sublette County, Hydrologic Unit 14040102, on right bank 35 ft (11 m) downstream from old highway bridge, 3.4 mi (5.5 km) upstream from mouth, and 9.5 mi (15.3 km) northeast of Big Piney.

DRAINAGE AREA.--1,230 mi^2 (3,190 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m), from topographic map.

REMARKS.--Records good except those for winter period, and period of no gage-height record, Dec. 18 to Jan. 24, which are poor. Natural flow of stream affected by storage reservoirs, power development, and diversions for irrigation of about 62,100 acres (251 km^2) above station.

AVERAGE DISCHARGE.--22 years, 734 ft^3/s (20.79 m^3/s), 531,800 acre-ft/yr (656 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,170 ft^3/s (260 m^3/s) June 10, 1972, gage height, 8.15 ft (2.484 m); minimum daily, 90 ft^3/s (2.55 m^3/s) Jan. 13, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,900 ft^3/s (139 m^3/s) June 9, gage height, 5.74 ft (1.750 m); minimum daily, 160 ft^3/s (4.53 m^3/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	378	300	210	240	200	250	420	3390	2040	1360	399
2	272	384	335	200	230	190	260	440	3270	2470	1400	388
3	266	384	320	200	230	190	260	450	3530	2790	1420	385
4	272	384	320	210	220	180	270	460	3950	2740	1380	381
5	272	384	320	210	200	180	280	458	4200	2550	1240	378
6	264	378	320	210	180	180	300	448	4380	2380	1150	379
7	266	372	340	210	180	190	280	461	4680	2290	1060	398
8	292	359	340	210	170	200	300	448	4750	2180	966	392
9	299	341	340	210	170	200	320	440	4850	2150	860	390
10	308	329	340	190	170	210	310	463	4730	2110	805	369
11	302	317	340	180	180	210	330	506	4620	2050	763	371
12	298	235	320	180	200	210	350	595	4560	2030	725	385
13	311	280	300	180	200	200	380	659	4080	1990	682	384
14	317	320	260	180	200	190	360	716	3640	1920	644	371
15	306	340	260	190	200	190	360	996	2950	1800	607	365
16	294	340	280	210	190	190	360	1370	2350	1670	591	411
17	288	330	260	220	190	200	350	1400	2110	1570	566	397
18	288	320	240	220	190	220	340	1500	2300	1540	549	385
19	288	300	240	220	180	220	340	1740	2460	1560	559	391
20	283	270	240	220	180	200	340	2140	2050	1610	530	395
21	283	250	240	220	170	200	360	2700	1840	1540	495	395
22	277	230	240	220	160	220	380	3260	1980	1440	471	393
23	283	260	240	220	170	240	370	3260	2350	1340	470	400
24	299	270	240	220	180	240	370	3240	2380	1260	475	390
25	277	240	240	210	190	240	400	3400	2190	1200	450	380
26	294	230	250	200	200	230	390	3030	1970	1090	437	379
27	347	230	260	200	200	220	380	2780	1750	1030	444	392
28	353	230	240	220	200	220	400	2910	1610	978	428	391
29	353	240	240	230	200	210	400	3260	1600	902	417	381
30	353	250	230	240	---	220	400	3610	1740	860	415	373
31	372	---	220	250	---	230	---	3610	---	907	409	---
TOTAL	9251	9175	8655	6490	5570	6420	10190	51170	92260	53987	22768	11580
MEAN	298	306	279	209	192	207	340	1651	3075	1742	734	386
MAX	372	384	340	250	240	240	400	3610	4850	2790	1420	411
MIN	264	230	220	180	160	180	250	420	1600	860	409	365
AC-FT	18350	18200	17170	12870	11050	12730	20210	101500	183000	107100	45160	22970

CAL YR 1975 TOTAL 292965 MEAN 803 MAX 5980 MIN 190 AC-FT 581100
WTR YR 1976 TOTAL 287516 MEAN 786 MAX 4850 MIN 160 AC-FT 570300

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT											
07...	1600	261	240	--	12.0	1	--	--	92	0	26
NOV											
04...	1415	384	245	--	7.5	1	--	--	98	0	29
DEC											
02...	1515	A335	220	--	.5	1	--	--	100	0	26
JAN											
24...	1130	A220	210	--	.0	1	--	--	93	0	28
MAR											
03...	1610	A190	160	--	.0	1	--	--	86	0	26
APR											
01...	1055	A250	220	--	.0	2	--	--	80	0	24
MAY											
04...	1400	460	250	--	15.5	0	--	--	98	0	29
24...	1530	3230	70	--	9.5	1	--	--	23	0	6.7
JUN											
15...	1340	2920	100	--	9.0	4	--	--	--	--	--
JUL											
07...	1030	2310	115	--	10.0	3	--	--	47	0	14
29...	1000	913	210	--	15.0	1	--	--	76	0	21
AUG											
21...	1045	482	215	8.5	20.0	1	10.8	6.2	89	0	26
SEP											
01...	1020	398	280	--	15.0	0	--	--	76	0	22
23...	0900	398	280	--	8.5	1	--	--	--	--	--

A Daily mean discharge.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT											
07...	6.4	13	.6	1.9	120	3	103	16	1.8	.3	8.5
NOV											
04...	6.2	13	.6	2.1	140	0	115	15	3.5	.3	9.9
DEC											
02...	9.5	9.9	.4	1.9	130	0	107	12	5.3	.3	9.6
JAN											
24...	6.0	9.4	.4	2.1	120	0	98	12	1.7	.2	11
MAR											
03...	5.4	9.9	.5	1.2	110	0	90	16	1.7	.2	9.8
APR											
01...	5.1	8.8	.4	1.4	100	0	82	13	2.8	.1	8.6
MAY											
04...	6.4	11	.5	1.9	130	3	112	13	3.6	.2	8.5
24...	1.5	3.5	.3	.9	31	0	25	2.5	1.0	.0	3.9
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	3.0	4.7	.3	1.4	61	0	50	4.9	1.9	.2	6.8
29...	5.7	8.8	.4	1.4	100	0	82	9.9	1.9	.2	7.4
AUG											
21...	5.8	9.5	.4	2.4	112	0	92	13	3.2	.2	8.2
SEP											
01...	5.1	11	.5	1.6	110	0	90	11	1.8	.3	7.7
23...	--	--	--	--	--	--	--	--	--	--	--

GREEN RIVER BASIN

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT											
07...	136	.19	95.8	.02	--	--	--	--	--	--	--
NOV											
04...	146	.20	151	.00	--	--	--	--	--	--	--
DEC											
02...	137	.19	124	.02	--	--	--	--	--	--	--
JAN											
24...	129	.18	76.6	.11	--	--	--	--	--	--	--
MAR											
03...	123	.17	63.1	.05	--	--	--	--	--	--	--
APR											
01...	115	.16	77.6	.05	--	--	--	--	--	--	--
MAY											
04...	139	.19	173	.02	--	--	--	--	--	--	--
24...	36	.05	314	.05	--	--	--	--	--	--	--
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	67	.09	418	.02	--	--	--	--	--	--	--
29...	107	.15	264	--	--	--	--	--	--	--	--
AUG											
21...	124	.17	161	--	.03	.02	.06	.02	.68	.76	.74
SEP											
01...	115	.16	124	.02	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT											
07...	--	--	.08	--	--	--	--	--	--	--	--
NOV											
04...	--	--	.01	--	--	--	--	--	--	--	--
DEC											
02...	--	--	.01	--	--	--	--	--	--	--	--
JAN											
24...	--	--	.01	--	--	--	--	--	--	--	--
MAR											
03...	--	--	.01	--	--	--	--	--	--	--	--
APR											
01...	--	--	.02	--	--	--	--	--	--	--	--
MAY											
04...	--	--	.02	--	--	--	--	--	--	--	--
24...	--	--	.06	--	--	--	--	--	--	--	--
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	.02	--	--	--	--	--	--	--	--
29...	--	--	.02	--	--	--	--	--	--	--	--
AUG											
21...	.78	.77	.03	.03	.00	.00	30	80	10	1500	.6
SEP											
01...	--	--	.01	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

DATE	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
OCT											
07...	2	1.4	--	--	--	--	--	--	--	--	--
NOV											
04...	2	2.1	--	--	--	--	--	--	--	--	--
DEC											
02...	10	9.0	--	--	--	--	--	--	--	--	--
JAN											
24...	13	7.7	--	--	--	--	--	--	--	--	--
MAR											
03...	11	5.6	--	--	--	--	--	--	--	--	--
APR											
01...	4	2.7	50	--	--	--	--	--	--	--	--
MAY											
04...	5	6.2	72	--	--	--	--	--	--	--	--
24...	153	1330	36	--	--	--	--	--	--	--	--
JUN											
15...	39	307	40	--	--	--	--	--	--	--	--
JUL											
07...	41	256	46	--	--	--	--	--	--	--	--
29...	4	9.9	41	--	--	--	--	--	--	--	--
AUG											
21...	--	--	--	14.5	17.2	265	12.4	.034	.000	.355	.137
SEP											
01...	11	12	66	--	--	--	--	--	--	--	--
23...	2	2.1	--	--	--	--	--	--	--	--	--

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP									
01...	1020	398	15.0	1	6	12	27	54	92

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	AUG 21,76
TIME	1845
TOTAL CELLS/ML	1500
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.8
...FAMILY	1.4
....GENUS	1.4

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	1100#	74
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	160	11
...CYMBELLACEAE		
....EPITHEMIA	96	7
...GOMPHONEMATACEAE		
....GOMPHONEMA	64	5
...NAVICULACEAE		
....NAVICULA	32	3
...NITZSCHIACEAE		
....NITZSCHIA	32	3

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON ANALYSES

AUG. 21, 1976
1845 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
E	....COCCONEIS	
	...CYMBELLACEAE	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09207650 DRY BASIN CREEK NEAR BIG PINEY, WY

LOCATION.--Lat 42°25'28", long 110°06'35", in SW¼NW¼ sec.12, T.28 N., R.112 W., Sublette County, Hydrologic Unit 14040101, just upstream from bridge on U.S. Highway 89, about 2,000 ft (610 m) upstream from mouth, and 7.8 mi (12.6 km) south of Big Piney.

DRAINAGE AREA.--47.2 mi² (122 km²).

PERIOD OF RECORD.--Water years 1975 to current year.

PREMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)
APR					
01...	1700	28	330	1.5	7000
MAY					
05...	1930	.41	925	12.5	500

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
APR										
01...	1700	1.5	28	29200	2210	32	57	92	98	100
MAY										
05...	1930	12.5	.41	870	.96	90	94	100	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
MAY							
05...	1930	.41	12.5	13	30	49	74

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY							
05...	80	80	82	85	89	92	100

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY

LOCATION.--Lat 42°30'30", long 110°40'10", in SE¼ sec.8, T.29 N., R.116 W., Lincoln County, Hydrologic Unit 14040101, Bridger National Forest, on right bank 0.5 mi (0.8 km) upstream from Crystal Creek, 2.0 mi (3.2 km) southeast of La Barge Meadows ranger station, and 29 mi (47 km) northwest of La Barge.

DRAINAGE AREA.--6.3 mi² (16.3 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to September 1942, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,410 ft (2,563 m), from topographic map. Oct. 1, 1940, to Sept. 30, 1942, at site 300 ft (91 m) upstream at different datum. Oct. 31, 1950, to Aug. 30, 1972, on left bank at present datum.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--28 years, 14.4 ft³/s (0.408 m³/s), 10,430 acre-ft/yr (12.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 196 ft³/s (5.55 m³/s) June 9, 1972, gage height, 5.48 ft (1.670 m); maximum gage height, 7.08 ft (2.158 m) Nov. 26, 1967 (backwater from snow); minimum daily discharge, 1.3 ft³/s (0.037 m³/s) Jan. 29 to Feb. 2, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 119 ft³/s (3.37 m³/s) May 29, gage height, 4.69 ft (1.430 m), no peak above base of 120 ft³/s (3.40 m³/s); minimum daily, 3.0 ft³/s (0.085 m³/s) Mar. 31 to Apr. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	5.5	3.9	4.5	3.9	4.0	3.0	6.2	89	44	14	6.2
2	7.1	5.5	3.9	4.5	3.9	3.8	3.0	8.8	92	43	12	6.2
3	7.1	5.5	3.9	4.2	3.9	3.5	3.0	11	94	40	12	5.9
4	7.1	5.1	3.9	4.2	3.9	3.8	3.2	12	94	36	11	5.9
5	7.1	5.1	3.9	4.5	3.7	3.5	3.5	14	94	34	11	6.2
6	7.1	5.1	3.9	4.6	3.5	3.2	3.7	15	96	33	10	7.1
7	7.6	5.1	4.2	4.5	3.5	3.2	3.7	15	93	31	10	8.4
8	8.0	5.2	4.4	4.2	3.5	3.2	4.2	18	90	29	10	7.6
9	6.7	5.3	4.4	4.1	3.6	3.2	4.8	22	87	28	10	7.6
10	7.1	5.3	4.3	4.2	3.9	3.2	4.8	25	84	26	10	7.1
11	6.7	5.2	4.2	4.1	3.8	3.2	5.1	29	80	24	10	6.7
12	7.1	5.1	4.2	4.1	3.7	3.5	6.7	32	68	23	10	8.4
13	7.1	5.9	4.2	4.0	3.5	3.5	5.9	39	60	21	8.8	7.6
14	7.1	5.9	4.2	3.9	3.8	3.7	5.1	48	51	20	8.8	7.1
15	7.1	5.5	4.2	4.2	4.0	3.7	5.5	55	51	18	8.8	6.2
16	7.1	5.5	4.1	4.5	4.1	3.5	5.1	51	48	18	9.2	6.2
17	7.1	5.5	4.1	4.4	4.2	3.5	4.8	57	45	18	8.4	6.7
18	6.7	5.5	4.1	4.2	4.1	3.7	5.1	67	47	17	9.2	8.4
19	6.7	5.3	4.2	4.5	4.0	4.0	4.8	72	42	15	8.8	7.1
20	6.7	5.1	4.2	4.5	3.9	3.8	4.8	74	45	15	7.6	6.7
21	6.7	4.8	4.2	4.2	3.7	3.7	4.8	72	54	16	7.1	6.2
22	6.7	4.8	4.2	4.2	3.7	3.5	4.5	80	59	15	7.1	7.1
23	6.2	4.8	4.5	4.2	3.7	3.5	4.5	76	57	14	9.6	7.1
24	6.2	4.8	4.5	4.2	3.7	3.7	4.8	72	52	14	7.6	6.7
25	5.5	4.7	4.8	4.2	3.7	3.7	5.9	68	48	14	7.6	6.7
26	5.9	4.8	4.8	4.2	3.7	3.7	5.9	72	48	14	8.0	6.7
27	5.9	4.8	4.8	4.2	3.7	3.5	5.1	80	46	13	7.1	6.2
28	5.9	4.8	4.7	3.9	3.9	3.5	5.1	89	44	13	6.7	6.2
29	5.9	4.6	4.5	3.9	3.7	3.2	4.8	96	43	13	6.7	5.9
30	5.9	4.2	4.5	3.9	---	3.2	5.1	91	43	12	6.2	5.9
31	5.9	---	4.5	3.9	---	3.0	---	85	---	14	6.7	---
TOTAL	208.1	154.3	132.4	130.9	109.9	108.9	140.3	1552.0	1944	685	280.0	204.0
MEAN	6.71	5.14	4.27	4.22	3.79	3.51	4.68	50.1	64.8	22.1	9.03	6.80
MAX	8.0	5.9	4.8	4.6	4.2	4.0	6.7	96	96	44	14	8.4
MIN	5.5	4.2	3.9	3.9	3.5	3.0	3.0	6.2	42	12	6.2	5.9
AC-FT	413	306	263	260	218	216	278	3080	3860	1360	555	405

CAL YR 1975 TOTAL 5815.8 MEAN 15.9 MAX 112 MIN 2.8 AC-FT 11540
WTR YR 1976 TOTAL 5649.8 MEAN 15.4 MAX 96 MIN 3.0 AC-FT 11210

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT											
08...	1145	7.1	238	--	2.0	3	--	--	--	--	--
JAN											
20...	1215	4.2	270	--	.0	1	--	--	--	--	--
MAR											
04...	1305	A3.8	210	--	.0	1	--	--	--	--	--
APR											
08...	1200	3.9	270	--	.5	1	--	--	--	--	--
MAY											
12...	1225	A32	170	--	4.0	7	--	--	97	9	27
JUN											
08...	1510	89	220	--	9.0	3	--	--	--	--	--
20...	1800	47	260	8.3	17.0	5	7.0	.1	--	--	--
24...	0900	53	265	--	3.0	2	--	--	140	11	39
JUL											
08...	0900	30	270	--	6.0	1	--	--	--	--	--
27...	1100	14	300	--	11.0	1	--	--	--	--	--
AUG											
31...	1300	7.1	290	--	13.0	1	--	--	160	26	45

A Daily mean discharge.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
JAN											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR											
04...	--	--	--	--	--	--	--	--	--	--	--
APR											
08...	--	--	--	--	--	--	--	--	--	--	--
MAY											
12...	7.1	3.0	.1	.7	107	88	14	.7	.1	4.1	109
JUN											
08...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
24...	10	1.3	.0	.3	156	128	24	1.1	.2	4.7	158
JUL											
08...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
31...	12	.8	.0	.4	166	136	25	.5	.2	4.1	170

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BUTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT										
08...	--	--	--	--	--	--	--	26	.50	--
JAN										
20...	--	--	--	--	--	--	--	7	.08	--
MAR										
04...	--	--	--	--	--	--	--	2	.02	--
APR										
08...	--	--	--	--	--	--	--	10	.11	20
MAY										
12...	.15	9.42	.21	20	90	--	--	22	1.9	33
JUN										
08...	--	--	--	--	--	--	--	16	3.8	84
20...	--	--	--	--	--	440	11	--	--	--
24...	.21	22.6	--	0	20	--	--	13	1.9	61
JUL										
08...	--	--	--	--	--	--	--	6	.49	53
27...	--	--	--	--	--	--	--	10	.38	38
AUG										
31...	.23	3.26	.01	9	20	--	--	20	.38	27

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
JUL							
27...	1100	14	11.0	22	0	1	1

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JUL							
27...	4	5	6	10	24	56	89

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUN 20.76
TIME	1800
TOTAL CELLS/ML	440
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	2.2
....GENUS	2.2

ORGANISM	CELLS /ML	PERCENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	99#	23
...EUNOTIACEAE		
....EUNOTIA	20	5
...GOMPHONEMATACEAE		
....GOMPHONEMA	59	14
...NAVICULACEAE		
....NAVICULA	160#	37
...NITZSCHIACEAE		
....NITZSCHIA	89#	21
...SURIRELLACEAE		
....SURIRELLA	10	3

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

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                 JUNE 29, 1976
                  1800 HOURS

           IDENTIFICATION OF PERIPHYTON

  _ORGANISM__NAME_______________   _COMMON__NAME______
  CHLOROPHYTA                      GREEN ALGAE
  .CHLOROPHYCEAE
  ..ULOTHRICHALES
  ...ULOTHRICHACEAE
O ....ULOTHRIX
  ..ZYGNEMATALES
  ...DESMIDIACEAE                  PLACODERM DESMIDS
O ....CLOSTERIUM
  CHRYSOPHYTA
  .BACILLARIOPHYCEAE               DIATOMS
  ..CENTRALES                      CENTRIC
  ...COSCINODISCACEAE
O ....MELOSIRA
  ..PENNALES                       PENNATE
  ...ACHNANTHACEAE
O ....ACHNANTHES
  ...CYMBELLACEAE
O ....AMPHORA
O ....CYMBELLA
  ...DIATOMACEAE
O ....DIATOMA
  ...FRAGILARIACEAE
E ....FRAGILARIA
O ....HANNAEA
O ....SYNEDRA
  ...GOMPHONEMATACEAE
E ....GOMPHONEMA
  ...MERIDIONACEAE
O ....MERIDION
  ...NAVICULACEAE                  NAVICULOID
O ....NAVICULA
O ....PINNULARIA
  ...NITZSCHIACEAE
O ....NITZSCHIA
  ...SURIRELLACEAE
O ....CYMATOPLEURA
O ....SURIRELLA
  .XANTHOPHYCEAE                   YELLOW-GREEN ALGAE
  ..HETEROTRICHALES
  ...TRIBONEMATACEAE
O ....TRIBONEMA
  CYANOPHYTA                       BLUE-GREEN ALGAE
  .MYXOPHYCEAE
  ..OSCILLATORIALES                FILAMENTOUS
  ...OSCILLATORIACEAE
O ....LYNGBYA
O ....OSCILLATORIA


NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
      O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
      ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE
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09209400 GREEN RIVER NEAR LA BARGE, WY

LOCATION.--Lat 42°11'34", long 110°09'45", in SE¼SE¼NW¼ sec.33, T.26 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, on right bank 1.7 mi (2.7 km) upstream from high-water line of Fontenelle Reservoir at elevation 6,513 ft (1,985.2 m), 4.0 mi (6.4 km) upstream from Muddy Creek, and 5.0 mi (8.0 km) south of La Barge.

DRAINAGE AREA.--3,910 mi² (10,130 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Records are equivalent to those published August 1946 to March 1965 as Green River near Fontenelle (sta 09209500).

GAGE.--Water-stage recorder. Altitude of gage is 6,520 ft (1,987 m), from topographic map.

REMARKS.--Records good except those for November to April and period of no gage-height record, May 8-26, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 198,000 acres (801 km²) above station.

AVERAGE DISCHARGE.--30 years (water years 1947-76), 1,670 ft³/s (47.29 m³/s), 1,210,000 acre-ft/yr (1,492 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft³/s (510 m³/s) June 11, 1972, gage height, 10.34 ft (3.152 m); minimum daily, 280 ft³/s (7.93 m³/s) Dec. 29, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,750 ft³/s (248 m³/s) June 12, gage height, 8.25 ft (2.515 m); minimum daily, 460 ft³/s (13.0 m³/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	701	973	660	520	620	640	810	1700	6960	3520	2670	972
2	701	970	700	500	600	620	850	1900	6580	4130	2950	936
3	692	986	680	500	600	600	900	2200	6650	4860	3200	889
4	682	962	680	520	580	580	850	2500	6960	5250	3300	867
5	682	951	680	520	560	580	900	2800	7390	5100	3000	867
6	672	913	680	520	520	580	1000	3030	7640	4710	2550	856
7	672	926	720	520	520	620	1100	3270	7930	4630	2310	867
8	692	932	720	540	500	650	1000	3300	8370	4490	2080	867
9	748	856	740	540	480	650	1100	3500	8600	4410	1920	878
10	796	867	740	520	480	680	1200	4000	8520	4390	1760	867
11	749	926	740	500	520	680	1200	4500	8410	4340	1660	856
12	744	858	700	500	580	680	1300	5000	8600	4390	1570	856
13	781	788	660	500	580	640	1400	4500	8560	4410	1530	867
14	827	855	680	500	580	620	1300	4500	7960	4360	1420	867
15	853	871	600	520	580	620	1200	5000	6720	4130	1350	845
16	833	905	620	540	560	620	1200	6000	5310	3820	1340	867
17	807	953	600	580	560	660	1200	5000	4490	3500	1320	901
18	793	898	560	580	560	700	1100	5000	4950	3320	1310	867
19	783	876	560	580	540	700	1100	5500	5710	3350	1320	867
20	776	860	560	560	520	680	1100	6000	4950	3330	1310	867
21	771	780	560	560	500	680	1100	6800	4050	3430	1230	901
22	778	720	560	580	460	700	1200	7500	3820	3230	1160	889
23	771	760	580	580	500	740	1400	8000	4280	3000	1140	924
24	787	800	560	580	540	740	1500	8000	4600	2700	1160	960
25	782	750	580	560	580	740	1600	7800	4440	2650	1160	972
26	789	680	600	540	600	720	1800	7600	3970	2540	1140	972
27	906	620	620	540	640	680	1600	6720	3570	2430	1160	948
28	942	600	580	580	640	700	1400	6160	3270	2410	1130	936
29	916	600	580	600	640	680	1500	6240	3100	2310	1090	924
30	901	640	580	620	---	720	1600	6720	3170	2230	1040	901
31	916	---	540	650	---	750	---	7070	---	2230	1020	---
TOTAL	24181	25076	19520	16950	16140	20650	36510	157810	179530	113680	52300	26853
MEAN	780	836	630	547	557	666	1217	5091	5984	3667	1687	895
MAX	942	973	740	650	640	750	1800	8000	8600	5250	3300	972
MIN	672	600	540	500	460	580	810	1700	3100	2230	1020	845
AC-FT	47960	49730	38720	33620	32010	40960	72420	313000	356100	225500	103700	53260

CAL YR 1975 TOTAL 671419 MEAN 1840 MAX 11600 MIN 365 AC-FT 1332000
WTR YR 1976 TOTAL 689198 MEAN 1883 MAX 8600 MIN 460 AC-FT 1367000

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily water temperatures and samples for specific conductance collected at bridge 0.7 mi (1.1 km) north of La Barge and 6.5 mi (10.5 km) upstream from discharge station.

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1963 to September 1976 (discontinued).
WATER TEMPERATURES: October 1963 to September 1976 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 734 micromhos Jan. 22, 1968; minimum daily, 145 micromhos May 30, 1969.
WATER TEMPERATURES: Maximum, 24.0°C Aug 7, 1970, July 24, 1976; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 549 micromhos Apr. 10; minimum daily, 197 micromhos June 7.
WATER TEMPERATURES: Maximum, 24.0°C July 24; minimum, 0.0°C on many days during October to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT												
09...	1110	740	380	--	8.0	3	--	--	--	--	--	--
24...	1000	781	420	8.1	1.5	2	10.8	1.4	B5	180	24	46
NOV												
04...	1205	972	400	--	6.0	3	--	--	--	--	--	--
22...	0745	A720	340	8.0	.5	10	10.9	1.4	B3	210	30	58
DEC												
03...	1000	A680	410	--	.0	1	--	--	--	--	--	--
22...	0745	A560	420	7.9	.5	15	11.4	2.7	B16	210	38	57
JAN												
23...	1600	A580	380	--	.0	1	--	--	--	--	--	--
24...	0830	A580	420	8.0	.5	1	11.6	2.0	B2	220	64	56
MAR												
02...	1020	A620	160	--	.0	3	--	--	--	--	--	--
23...	1200	A740	440	7.4	.5	3	10.2	--	--	190	42	51
APR												
01...	1520	A810	350	--	.0	140	--	--	--	--	--	--
24...	1300	A1500	440	8.1	6.5	20	9.7	3.0	B9	180	16	49
MAY												
05...	1000	2810	375	--	11.5	45	--	--	--	--	--	--
26...	1745	7570	265	--	11.5	20	--	--	--	--	--	--
29...	0900	6200	255	7.9	12.5	30	8.1	3.8	35	110	12	28
JUN												
15...	1900	6380	320	--	11.0	9	--	--	--	--	--	--
20...	1230	4920	380	8.1	10.0	15	7.9	.9	--	--	--	--
29...	0815	3100	290	8.0	15.5	5	7.4	3.4	35	140	17	35
JUL												
07...	1520	4680	260	--	19.0	6	--	--	--	--	--	--
20...	1730	3370	340	--	19.5	2	--	--	--	--	--	--
26...	0745	2550	310	8.0	18.0	1	6.5	2.4	31	130	7	33
28...	1500	2410	220	--	19.5	4	--	--	--	--	--	--
AUG												
21...	2030	1230	295	8.7	19.0	1	11.8	3.5	--	150	30	40
23...	0830	1140	340	8.0	17.0	4	7.0	2.2	B9	130	7	34
SEP												
01...	1710	972	340	--	19.0	0	--	--	--	--	--	--
20...	0830	867	360	8.1	11.0	2	9.0	2.6	B10	150	27	39
22...	1030	912	360	--	14.0	1	--	--	--	--	--	--

A Daily mean discharge.
B Results based on colony count outside the acceptable range (non-ideal colony count).

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
OCT												
09...	--	--	--	--	--	--	--	--	--	--	--	--
24...	15	19	.6	1.9	190	0	156	61	5.4	.3	7.6	--
NOV												
04...	--	--	--	--	--	--	--	--	--	--	--	--
22...	15	22	.7	2.1	220	0	180	73	4.9	.3	8.4	--
DEC												
03...	--	--	--	--	--	--	--	--	--	--	--	--
22...	15	15	.5	1.4	210	0	172	69	3.5	.3	9.5	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
24...	20	14	.4	2.3	190	0	156	78	3.5	.3	9.0	--
MAR												
02...	--	--	--	--	--	--	--	--	--	--	--	--
23...	15	14	.4	1.9	180	0	148	65	3.5	.2	8.1	--
APR												
01...	--	--	--	--	--	--	--	--	--	--	--	--
24...	15	15	.5	3.3	200	0	164	51	3.6	.2	8.2	--
MAY												
05...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
29...	8.5	7.6	.3	1.2	120	0	98	21	2.6	.2	5.2	150
JUN												
15...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
29...	12	12	.4	1.4	150	0	123	29	3.7	.3	7.6	--
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
26...	12	11	.4	.7	150	0	123	24	1.9	.3	3.4	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
21...	12	11	.4	2.8	146	0	120	52	5.2	.2	5.5	--
23...	11	14	.5	1.9	150	0	123	41	1.8	.3	4.8	--
SEP												
01...	--	--	--	--	--	--	--	--	--	--	--	--
20...	12	16	.6	2.1	150	0	123	49	2.5	.3	5.6	--
22...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SUS-PENDED SOLIDS (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT											
09...	--	--	--	--	--	--	--	--	--	--	--
24...	249	.34	525	--	4	.00	.00	--	.00	--	.30
NOV											
04...	--	--	--	--	--	--	--	--	--	--	--
22...	292	.40	568	--	26	.02	.02	--	.00	--	.30
DEC											
03...	--	--	--	--	--	--	--	--	--	--	--
22...	273	.37	413	--	21	.00	.03	--	.01	--	.19
JAN											
23...	--	--	--	--	--	--	--	--	--	--	--
24...	277	.38	434	--	2	.09	.77	--	.03	--	.36
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
23...	248	.34	496	--	14	.02	.10	--	.00	--	.14
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
24...	246	.33	996	--	39	.07	.08	--	.02	--	.81
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
29...	135	.18	2260	48	43	.07	.04	--	.07	--	.66
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
29...	176	.24	1470	--	22	.07	.11	--	.01	--	.24
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
26...	161	.22	1110	--	4	.00	.14	--	.03	--	.44
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	202	.27	471	--	--	--	.03	.02	.03	.05	.40
23...	183	.25	563	--	0	.16	.08	--	.03	--	.14
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
20...	202	.27	473	--	3	.02	.03	--	.03	--	.47
22...	--	--	--	--	--	--	--	--	--	--	--

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT											
09...	--	--	--	--	--	--	--	--	--	--	--
24...	--	.30	--	.30	.01	--	--	--	2.9	--	--
NOV											
04...	--	--	--	--	--	--	--	--	--	--	--
22...	--	.30	--	.32	.03	--	--	--	--	--	--
DEC											
03...	--	--	--	--	--	--	--	--	--	--	--
22...	--	.20	--	.23	.02	--	--	--	--	--	--
JAN											
23...	--	--	--	--	--	--	--	--	--	--	--
24...	--	.39	--	1.2	.00	--	--	--	2.6	--	--
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
23...	--	.14	--	.24	.02	--	--	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
24...	--	.83	--	.91	.04	--	--	--	10	--	--
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
29...	--	.73	--	.77	.08	--	--	--	--	--	--
JUN											
15...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	880	2.8
29...	--	.25	--	.36	.01	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
26...	--	.47	--	.61	.02	--	--	--	3.7	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	.75	.43	.80	.46	.00	.02	.00	.00	--	4400	.4
23...	--	.17	--	.25	.01	--	--	--	--	--	--
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
20...	--	.50	--	.53	.01	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--

DATE	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
OCT											
09...	6	12	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
NOV											
04...	8	21	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
DEC											
03...	2	3.7	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
JAN											
23...	13	20	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
02...	7	12	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	324	709	99	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
05...	159	1210	70	--	--	--	--	--	--	--	--
26...	138	2820	58	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JUN											
15...	61	1050	58	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	44	556	40	--	--	--	--	--	--	--	--
20...	19	173	71	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
28...	57	371	67	--	--	--	--	--	--	--	--
AUG											
21...	--	--	--	10.6	14.9	250	4.74	.032	.000	.228	.016
23...	--	--	--	--	--	--	--	--	--	--	--
SEP											
01...	46	121	64	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
22...	4	9.8	--	--	--	--	--	--	--	--	--

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	SUSPENDED ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	SUSPENDED BERYLLIUM (BE) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	TOTAL BORON (B) (UG/L)	DISSOLVED BORON (B) (UG/L)
OCT												
24...	1000	130	110	20	1	1	0	10	10	0	70	--
JAN												
24...	0830	100	100	0	0	0	0	0	0	10	50	--
MAR												
23...	1200	--	--	--	--	--	--	--	--	--	0	--
APR												
24...	1300	1200	1200	10	1	0	1	0	0	0	60	--
MAY												
29...	0900	--	--	--	--	--	--	--	--	--	30	--
JUN												
29...	0815	--	--	--	--	--	--	--	--	--	30	--
JUL												
26...	0745	290	290	0	1	0	1	0	0	0	50	--
AUG												
21...	2030	--	--	--	--	--	--	--	--	--	--	40
23...	0830	--	--	--	--	--	--	--	--	--	130	--
SEP												
20...	0830	--	--	--	--	--	--	--	--	--	90	--

DATE	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT												
24...	0	0	0	60	60	0.	0	0	2	130	40	100
JAN												
24...	<10	<8	2	0	0	0	<10	<8	2	60	0	<100
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
24...	<10	<9	1	10	10	0	<10	<6	4	1200	30	<100
MAY												
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	<10	<9	1	0	0	0	10	7	3	420	30	<100
AUG												
21...	--	--	--	--	--	--	--	--	--	--	10	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	SUSPENDED LITHIUM (LI) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSULVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)
OCT												
24...	97	3	7	0	7	6	6	0	.4	.3	.1	3
JAN												
24...	<94	6	10	10	0	10	0	10	.0	.0	.0	0
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
24...	<98	2	10	0	10	100	90	10	.0	.0	.0	0
MAY												
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
26...	<98	2	10	5	5	40	30	10	.0	.0	.0	1
AUG												
21...	--	--	--	--	--	--	--	10	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS-PENDED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	SUS-PENDED NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 24...	1	2	0	0	6	0	0	0	.4	10	6	4
JAN 24...	0	1	<50	<48	2	0	0	0	.2	40	40	0
MAR 23...	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	0	0	<50	<47	3	0	0	0	.6	10	10	0
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 26...	0	1	<50	<49	1	0	0	0	.0	20	10	10
AUG 21...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
MAY 29...	0900	<1.9	4.7	3.1	2.3	2.5	1.8	.03	.6

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BUTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)
SEP 21...	1600	901	.0	0	.00	.00	.0	.0	0	.00

DATE	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)
SEP 21...	.0	.00	.0	.00	.0	.00	.00	.0	.00

DATE	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)
SEP 21...	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
SEP 21...	.00	.00	.00	0	0	.00	.00	.00	.00

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
SEP 01...	1710	972	19.0	100	1	6	11	28	58	90

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	391	453	439	422	414	402	416	464	226	291	323	315
2	394	439	453	423	413	411	410	445	228	267	314	320
3	394	455	443	423	418	408	410	431	215	252	301	312
4	401	444	443	430	413	418	410	409	210	250	258	318
5	396	443	423	426	408	403	416	393	207	258	251	319
6	364	441	412	426	369	408	406	379	204	252	262	315
7	394	443	411	419	419	389	394	396	197	248	262	325
8	399	443	392	419	416	409	465	398	203	251	265	319
9	401	443	403	427	416	409	545	394	206	242	268	319
10	415	442	424	425	411	413	549	367	204	242	281	317
11	420	462	435	419	411	413	488	367	205	243	282	313
12	413	477	435	415	416	408	456	365	216	245	300	319
13	400	482	425	420	417	408	395	348	238	253	287	320
14	423	494	425	435	412	408	394	342	271	257	300	324
15	444	469	448	411	412	413	399	335	286	258	300	325
16	433	433	462	400	410	401	394	336	302	269	300	334
17	433	408	446	401	410	419	387	318	302	275	306	334
18	424	432	437	395	419	413	401	297	374	273	303	321
19	426	434	459	402	390	412	404	278	394	293	320	335
20	426	443	432	407	416	401	405	244	360	298	316	328
21	426	456	452	417	401	404	416	223	270	293	321	323
22	433	477	456	413	430	415	416	234	267	291	319	333
23	426	477	451	417	418	409	410	298	284	289	318	355
24	424	455	442	418	407	416	410	299	334	290	321	353
25	430	445	423	418	418	410	403	281	304	281	316	343
26	433	448	416	423	406	423	400	260	281	280	314	347
27	457	485	426	429	403	418	433	258	257	280	312	353
28	494	476	416	425	406	428	461	247	290	274	306	355
29	467	457	437	419	410	418	481	232	297	276	304	351
30	475	457	432	432	---	431	489	216	297	280	312	344
31	453	---	428	421	---	422	---	218	---	294	315	---
MONTH	423	454	433	419	411	412	429	325	264	269	299	330
YEAR	MAX	549	MIN	197	MEAN	372						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	2.0	0.0	0.0	0.0	1.0	1.0	10.0	14.0	18.0	18.0	16.0
2	8.5	4.5	1.0	0.0	0.0	0.0	1.0	13.0	14.0	18.0	17.5	16.0
3	12.0	5.0	0.0	0.0	0.0	0.0	1.5	11.0	15.0	15.0	16.5	18.0
4	11.0	3.0	1.0	0.0	0.0	0.0	2.0	11.0	15.0	18.5	17.0	18.0
5	13.0	4.0	0.5	0.0	0.0	0.0	1.0	11.0	14.5	19.0	16.0	14.0
6	12.0	4.0	0.5	0.0	0.0	0.0	0.5	9.0	15.0	20.0	17.0	14.5
7	11.0	4.0	0.5	0.0	0.0	0.0	1.0	10.5	16.0	18.0	18.0	14.0
8	7.5	2.5	1.0	0.0	0.0	0.5	2.0	11.0	14.0	19.0	17.5	13.5
9	6.0	1.0	1.0	0.0	0.0	1.0	1.0	11.0	15.5	19.0	18.0	12.5
10	7.0	0.5	0.0	0.0	0.0	1.5	2.0	13.5	15.5	21.0	16.5	14.0
11	7.0	0.0	0.5	0.0	0.0	1.0	3.0	13.0	12.0	20.0	15.0	16.0
12	8.0	1.0	0.0	0.0	0.0	0.5	3.0	11.5	10.5	18.0	16.0	15.0
13	6.5	0.0	0.5	0.0	0.0	0.0	2.0	12.5	9.0	9.0	18.0	14.5
14	6.5	0.0	0.5	0.0	0.0	0.0	4.0	14.5	8.0	10.0	18.0	15.0
15	6.0	0.5	0.0	0.5	0.5	0.5	4.0	11.0	8.5	20.0	16.0	12.0
16	6.5	1.0	0.0	0.5	0.0	1.0	4.5	12.0	12.0	18.0	14.5	12.0
17	7.0	0.0	0.0	0.5	0.0	0.5	4.5	9.5	11.0	19.0	16.0	13.5
18	8.0	0.5	0.0	0.0	0.0	1.0	3.5	14.0	13.0	18.0	18.0	14.5
19	9.0	0.5	0.5	0.5	0.0	0.0	7.0	13.0	13.5	18.0	17.5	14.0
20	7.0	0.5	1.0	0.0	0.0	0.0	3.0	14.0	17.0	20.0	18.5	13.0
21	8.0	1.0	1.0	0.0	0.0	0.0	8.0	12.0	18.0	10.0	15.0	15.5
22	6.0	0.5	1.0	0.0	0.0	1.5	8.0	10.0	16.0	18.0	20.0	13.0
23	4.0	0.5	0.5	0.0	0.0	1.5	8.0	12.0	13.0	18.5	18.0	12.0
24	1.0	0.5	0.5	0.5	0.0	1.0	8.5	11.0	12.0	24.0	19.0	13.0
25	0.0	1.0	1.0	0.5	0.0	1.0	7.0	10.0	15.0	21.0	17.0	13.0
26	4.0	0.0	0.5	0.0	0.0	1.0	4.0	10.0	13.0	21.0	16.0	12.5
27	3.5	0.0	1.0	0.5	0.0	0.5	7.0	10.5	14.0	20.0	15.5	10.5
28	4.0	0.0	1.0	0.5	0.0	1.0	8.5	13.0	18.0	19.0	14.0	12.0
29	1.0	0.0	0.0	0.0	0.5	1.0	9.5	13.0	16.0	18.0	14.0	14.5
30	5.0	0.0	0.0	0.0	---	1.0	8.0	12.5	16.0	17.0	15.0	11.0
31	4.0	---	0.0	0.0	---	0.5	---	11.0	---	18.5	16.0	---
MONTH	6.5	1.5	0.5	0.0	0.0	0.5	4.5	11.5	14.0	18.0	16.5	14.0
YEAR	MAX	24.0	MIN	0.0	MEAN	7.5						

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUN 20,76	AUG 21,76
TIME	1230	2030
TOTAL CELLS/ML	880	4400
DIVERSITY: DIVISION	1.3	0.0
.CLASS	1.6	0.0
..ORDER	1.8	0.9
...FAMILY	3.1	1.5
....GENUS	3.3	1.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...MICRACTINIACEAE				
....MICRACTINIUM	170#	20	--	-
...SCENEDESMACEAE				
....ACTINASTRUM	24	3	--	-
....SCENEDESMUS	*	0	--	-
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	12	2	3100#	72
....MELOSIRA	18	3	--	-
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	30	4	--	-
....COCCONEIS	24	3	230	6
...CYMBELLACEAE				
....CYMBELLA	24	3	110	3
....EPITHEMIA	12	2	110	3
...DIATOMACEAE				
....DIATOMA	12	2	--	-
...FRAGILARIACEAE				
....FRAGILARIA	12	2	--	-
...GOMPHONEMATACEAE				
....GOMPHONEMA	24	3	460	11
...NAVICULACEAE				
....NAVICULA	79	9	110	3
....PINNULARIA	12	2	--	-
....STAURONEIS	--	-	110	3
...NITZSCHIACEAE				
....NITZSCHIA	230#	27	110	3
...SURIRELLACEAE				
....SURIRELLA	6	1	--	-
...TABELLARIACEAE				
....TABELLARIA	12	2	--	-
.CHRYSOPHYCEAE				
..CHRYSOMONADALES				
...OCHROMONADACEAE				
....DINOBRYON	55	7	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
.MYXOPHYCEAE				
..OSCILLATORIALES				
...NOSTOCACEAE				
....ANABAENA	120	14	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JUNE 20, 1976
1230 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
O	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	
O	....OSCILLATORIA	

AUG. 21, 1976
2030 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
E	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY

LOCATION.--Lat 42°05'46", long 110°24'57", in NW¼SW¼NE¼ sec.2, T.24 N., R.115 W., Lincoln County, Hydrologic Unit 14040101, on left bank 2.0 mi (3.2 km) downstream from Dutch George Creek and 14 mi (23 km) west of Fontenelle.

DRAINAGE AREA.--152 mi^2 (394 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft (2,118 m), from topographic map. Prior to May 5, 1970, at site 300 ft (91 m) downstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 780 acres (3.16 km^2) above station.

AVERAGE DISCHARGE.--25 years, 72.7 ft^3/s (2.059 m^3/s), 52,670 acre-ft/yr (64.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 821 ft^3/s (23.3 m^3/s) June 13, 1965, gage height, 6.87 ft (2.094 m), site then in use; maximum gage height, 7.93 ft (2.417 m) Dec. 24, 1955 (backwater from ice), site then in use; minimum daily discharge, 10 ft^3/s (0.28 m^3/s) Dec. 10, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s (4.25 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 11	2230	257	7.28	6.89	2.100	May 22	2200	*664	18.8	8.88	2.707
Apr. 23	0130	264	7.48	6.93	2.112						

Minimum daily discharge, 25 ft^3/s (0.71 m^3/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	42	38	35	32	32	36	177	355	159	71	41
2	35	43	38	34	33	30	38	201	359	148	68	40
3	37	44	37	34	34	29	42	222	362	143	74	40
4	35	42	37	35	33	26	45	250	362	138	66	37
5	33	39	39	36	31	27	55	257	361	129	57	37
6	36	39	41	35	29	28	70	289	357	127	56	38
7	37	41	42	34	27	29	85	259	357	118	52	39
8	40	37	42	34	26	31	115	262	355	112	52	39
9	39	31	41	33	26	32	143	278	335	105	50	39
10	36	32	41	33	27	33	145	303	330	102	50	39
11	37	33	40	32	28	33	180	355	326	98	49	38
12	38	34	36	32	29	31	212	337	317	98	48	38
13	46	35	36	31	30	29	196	308	300	92	46	40
14	45	37	38	31	30	28	190	332	280	91	45	39
15	43	39	39	32	29	28	188	386	260	85	45	37
16	42	40	38	32	29	29	164	346	250	84	47	37
17	42	38	37	30	28	30	138	317	220	85	46	36
18	41	37	37	29	28	31	143	326	220	96	46	39
19	40	36	36	28	27	32	130	344	200	84	49	39
20	38	35	36	28	27	34	127	355	200	81	43	39
21	39	35	35	29	26	32	186	355	210	74	41	38
22	38	36	35	30	25	31	202	523	220	69	41	39
23	39	37	34	31	26	29	207	553	220	69	52	40
24	38	39	34	30	28	31	188	444	200	69	50	37
25	37	39	35	29	29	31	194	417	188	66	44	36
26	35	38	36	28	31	29	140	389	180	62	44	39
27	37	37	37	29	32	28	110	371	172	58	46	38
28	38	36	37	30	32	29	112	371	166	57	43	36
29	36	35	38	32	32	31	129	371	161	56	41	35
30	38	36	37	33	---	32	151	373	156	57	42	35
31	40	---	36	33	---	35	---	361	---	67	42	---
TOTAL	1190	1122	1163	982	844	940	4061	10432	7979	2879	1546	1144
MEAN	38.4	37.4	37.5	31.7	29.1	30.3	135	337	266	92.9	49.9	38.1
MAX	46	44	42	36	34	35	212	553	362	159	74	41
MIN	33	31	34	28	25	26	36	177	156	56	41	35
AC-FT	2360	2230	2310	1950	1670	1860	8050	20690	15830	5710	3070	2270

CAL YR 1975 TOTAL 31038 MEAN 85.0 MAX 466 MIN 21 AC-FT 61560
WTR YR 1976 TOTAL 34282 MEAN 93.7 MAX 553 MIN 25 AC-FT 68000

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT									
08...	1515	40	400	6.0	2	--	--	--	--
NOV									
05...	1530	50	385	3.5	2	--	--	--	--
DEC									
04...	1630	A37	420	.0	2	--	--	--	--
JAN									
20...	1410	A28	400	.0	1	--	--	--	--
MAR									
04...	1515	A26	390	.0	2	--	--	--	--
APR									
08...	1420	120	340	.5	40	--	--	--	--
29...	1600	112	320	9.0	15	190	21	53	14
MAY									
12...	1505	321	320	7.5	35	--	--	--	--
JUN									
02...	1015	370	260	8.0	25	160	17	44	11
24...	1515	199	360	7.5	7	--	--	--	--
JUL									
08...	1400	115	340	17.5	4	180	23	50	14
27...	1530	62	370	21.0	1	--	--	--	--
AUG									
31...	1700	42	370	18.0	1	200	43	55	16

A Daily mean discharge.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT									
08...	--	--	--	--	--	--	--	--	--
NOV									
05...	--	--	--	--	--	--	--	--	--
DEC									
04...	--	--	--	--	--	--	--	--	--
JAN									
20...	--	--	--	--	--	--	--	--	--
MAR									
04...	--	--	--	--	--	--	--	--	--
APR									
08...	--	--	--	--	--	--	--	--	--
29...	9.2	.3	1.7	206	169	31	4.8	.2	6.3
MAY									
12...	--	--	--	--	--	--	--	--	--
JUN									
02...	3.6	.1	.9	168	138	16	2.1	.1	6.2
24...	--	--	--	--	--	--	--	--	--
JUL									
08...	5.3	.2	.8	194	159	27	3.2	.1	5.8
27...	--	--	--	--	--	--	--	--	--
AUG									
31...	6.1	.2	.9	195	160	40	4.3	.2	5.3

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT									
08...	--	--	--	--	--	--	5	.54	--
NOV									
05...	--	--	--	--	--	--	3	.40	--
DEC									
04...	--	--	--	--	--	--	10	1.0	--
JAN									
20...	--	--	--	--	--	--	5	.38	--
MAR									
04...	--	--	--	--	--	--	18	1.3	--
APR									
08...	--	--	--	--	--	--	265	86	88
29...	223	.30	67.4	.32	40	140	50	15	80
MAY									
12...	--	--	--	--	--	--	221	192	54
JUN									
02...	167	.23	167	--	10	70	176	176	45
24...	--	--	--	--	--	--	44	24	61
JUL									
08...	202	.27	62.7	.00	20	30	18	5.6	62
27...	--	--	--	--	--	--	23	3.9	41
AUG									
31...	224	.30	25.4	.06	20	10	34	3.9	55

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
JUL							
27...	1530	62	21.0	17	0	1	1

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JUL							
27...	2	3	4	7	19	44	82

09211150 FONTENELLE RESERVOIR NEAR FONTENELLE, WY

LOCATION.--Lat 42°02'00", long 110°04'00", in S½ sec.25, T.24 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, at dam on Green River, 3.0 mi (4.8 km) north of Fontenelle, and 3.5 mi (5.6 km) upstream from Slate Creek.

DRAINAGE AREA.--4,280 mi^2 (11,085 km^2), approximately.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WSP 2125: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill dam completed by Bureau of Reclamation in April 1964. Capacity, 344,800 acre-ft (425 hm^3) between elevations 6,506.0 ft (1,983.03 m), crest of spillway, and 6,408.0 ft (1,953.16 m), invert of outlet pipe. Dead storage, below elevation 6,408.0 ft (1,953.16 m), 563 acre-ft (0.694 hm^3). Figures given herein represent total contents. Water used for irrigation and power development.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 387,000 acre-ft (477 hm^3) June 29, 1965, elevation, 6,511.01 ft (1,984.556 m); minimum daily, 5,680 acre-ft (7.00 hm^3) July 28, 1967, elevation, 6,423.98 ft (1,958.029 m).

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 358,800 acre-ft (442 hm^3) July 14, elevation, 6,507.64 ft (1,983.529 m); minimum daily, 166,100 acre-ft (205 hm^3) Apr. 4, elevation 6,479.90 ft (1,975.077 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,504.03	329,700	-
Oct. 31	6,502.81	320,300	-9,400
Nov. 30	6,500.91	305,600	-14,700
Dec. 31	6,497.74	281,900	-23,700
CAL YR 1975	-	-	+25,700
Jan. 31	6,493.01	248,200	-33,700
Feb. 29	6,488.43	217,200	-31,000
Mar. 31	6,480.40	168,900	-48,300
Apr. 30	6,485.55	198,800	+29,900
May 31	6,489.52	224,400	+25,600
June 30	6,501.26	308,300	+83,900
July 31	6,506.89	352,700	+44,400
Aug. 31	6,504.70	335,100	-17,600
Sept. 30	6,503.83	328,200	-6,900
WTR YR 1976	-	-	-1,500

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY

LOCATION.--Lat 42°01'16", long 110°02'57", in NW¼NW¼NE¼ sec.31, T.24 N., R.111 W., Sweetwater County, Hydrologic Unit 14040103, on right bank 1.0 mi (1.6 km) downstream from Fontenelle Dam, 2.5 mi (4.0 km) upstream from Slate Creek, and 6.0 mi (9.7 km) southeast of Fontenelle.

DRAINAGE AREA.--4,280 mi² (11,090 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1963 to current year.

REVISED RECORDS.--WSP 2125: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,378.13 ft (1,944.054 m) above mean sea level.

REMARKS.--Records good. Flow completely regulated by Fontenelle Reservoir 1.0 mi (1.6 km) upstream. (See sta 09211150.) Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 202,000 acres (817 km²) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,400 ft³/s (549 m³/s) Sept. 5, 1965, gage height, 18.74 ft (5.712 m), from floodmarks, caused by emergency release from Fontenelle Reservoir; minimum daily, 209 ft³/s (5.92 m³/s) Nov. 22-24, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,730 ft³/s (219 m³/s) June 2, gage height, 15.34 ft (4.676 m); minimum daily, 716 ft³/s (20.3 m³/s) Sept. 8-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	812	970	1120	1100	1030	1100	1380	2530	7690	1710	2590	1520
2	803	970	1110	1100	1050	1100	1320	2530	7690	1680	2790	1520
3	803	970	1100	1100	1060	1100	1240	2530	7320	1680	2980	1520
4	812	970	1100	1100	1050	1130	1180	2530	7000	1670	3160	1520
5	803	960	1100	1090	1050	1190	1130	2670	7020	1670	3250	1520
6	803	960	1100	1090	1040	1210	1110	2980	7060	1640	3160	1550
7	870	970	1070	1090	1040	1210	1070	3080	6620	1630	2980	1160
8	970	980	1070	1080	1040	1800	1070	3100	6140	1750	2790	716
9	970	970	1100	1080	1040	1240	1080	3100	6100	2220	2590	716
10	970	980	1080	1080	1030	1300	1100	3150	6140	2770	2400	716
11	970	960	1080	1070	1030	1340	1130	3400	6200	3200	2240	716
12	970	940	1080	1070	1040	1410	1200	3590	6260	3520	2120	716
13	980	940	1080	1060	1040	1440	1380	3880	6240	3770	2000	716
14	980	940	1110	1060	1040	1500	1700	4020	5960	3860	1910	716
15	980	940	1110	1050	1040	1560	1950	4010	5400	3900	1820	716
16	970	940	1110	1050	1040	1580	2000	4040	4880	3860	1770	814
17	970	940	1110	1040	1050	1580	2000	4200	4310	3780	1700	890
18	960	950	1120	1040	1050	1560	2000	4800	3810	3500	1650	880
19	950	960	1120	1040	1060	1560	2000	5200	3490	3390	1630	890
20	950	970	1120	1030	1070	1560	2000	5200	3490	3330	1600	900
21	950	970	1120	1030	1080	1560	2000	5400	3260	3330	1600	920
22	960	970	1120	1010	1080	1560	2000	6020	2930	3300	1600	910
23	980	970	1120	1010	1090	1560	2000	6460	2490	3250	1600	900
24	990	960	1120	1020	1090	1560	2000	6880	2020	3130	1600	900
25	990	960	1110	1030	1090	1560	2000	7360	2040	2980	1800	900
26	990	1030	1080	1030	1100	1560	2100	7660	2100	2880	1600	900
27	980	1130	1110	1030	1100	1560	2310	7640	2120	2770	1580	900
28	980	1130	1100	1030	1100	1560	2500	7660	1880	2670	1560	910
29	980	1130	1100	1030	1100	1540	2510	7640	1670	2580	1540	900
30	980	1130	1120	1030	---	1490	2530	7640	1720	2510	1530	920
31	980	---	1100	1030	---	1440	---	7640	---	2430	1520	---
TOTAL	29056	29560	34190	32700	30720	43820	50990	148540	141050	86270	64460	29472
MEAN	937	985	1103	1055	1059	1414	1700	4792	4702	2783	2079	982
MAX	990	1130	1120	1100	1100	1580	2530	7660	7690	3900	3250	1550
MIN	803	940	1070	1010	1030	1100	1070	2530	1670	1630	1520	716
AC-FT	57630	58630	67820	64860	60930	86920	101100	294600	279800	171100	127900	58460

CAL YR 1975 TOTAL 664249 MEAN 1820 MAX 6740 MIN 620 AC-FT 1318000
WTR YR 1976 TOTAL 720828 MEAN 1969 MAX 7690 MIN 716 AC-FT 1430000

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily water temperatures and samples for specific conductance collected at bridge on county road 1.0 mi (1.6 km) east of Fontenelle and 3.6 mi (5.8 km) downstream from discharge station.

PERIOD OF RECORD.--Water years 1968 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1967 to September 1976 (discontinued).
WATER TEMPERATURES: October 1967 to September 1976 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 701 micromhos Dec. 23, 1967; minimum daily, 242 micromhos June 24, 1973.
WATER TEMPERATURES: Maximum, 21.5°C July 27, 1975; minimum, 0.0°C Nov. 27, Dec. 21, 1967, Feb. 1, 1968.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 491 micromhos Apr. 5, 6; minimum daily, 249 micromhos June 19.
WATER TEMPERATURES: Maximum, 20.5°C on many days during July and August; minimum, 1.5°C Dec. 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)
OCT										
07...	1720	980	335	--	12.5	1	--	--	--	--
28...	1145	980	360	8.1	9.0	1	12.6	2.0	<1	140
NOV										
05...	1245	960	485	--	8.0	1	--	--	--	--
22...	0900	970	340	8.1	2.0	1	9.4	2.5	<1	150
DEC										
03...	1550	1060	480	--	2.5	1	--	--	--	--
22...	0900	1110	420	7.9	1.0	3	11.0	1.5	<1	180
JAN										
20...	1115	1020	470	--	2.5	1	--	--	--	--
24...	1615	1010	440	8.0	1.0	1	11.2	1.7	<1	200
FEB										
26...	1500	1060	300	8.0	3.0	1	11.4	1.4	<1	190
MAR										
08...	1510	1160	450	--	4.0	1	--	--	--	--
23...	1314	1560	450	7.9	4.5	7	12.2	--	<1	180
APR										
02...	0930	1230	390	--	3.5	1	--	--	--	--
29...	1430	1900	400	8.1	6.0	6	11.0	6.6	<1	170
MAY										
05...	1100	2040	420	--	7.0	35	--	--	--	--
08...	1115	7660	380	--	12.5	2	--	--	--	--
25...	1100	7600	370	8.2	13.0	8	10.4	2.8	82	150
JUN										
16...	1125	4040	120	--	13.5	8	--	--	--	--
24...	1500	1960	355	--	13.0	4	--	--	--	--
25...	1530	2120	290	8.4	13.0	3	8.3	1.8	--	--
29...	0930	1640	290	8.2	14.0	2	10.2	4.6	81	130
JUL										
21...	1120	3320	260	--	19.0	1	--	--	--	--
26...	0930	2870	320	8.1	17.0	3	8.0	3.0	84	140
28...	1015	2600	380	--	19.0	1	--	--	--	--
AUG										
23...	0930	1680	360	7.9	17.0	1	7.5	1.7	84	130
31...	1000	1950	380	--	18.0	1	--	--	--	--
SEP										
14...	0930	716	480	--	13.0	0	--	--	--	--
20...	0905	980	365	8.1	14.0	1	9.3	2.6	83	140
22...	1725	980	480	--	13.0	0	--	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT										
07...	--	--	--	--	--	--	--	--	--	--
24...	13	35	13	17	.6	1.6	130	12	127	47
NOV										
05...	--	--	--	--	--	--	--	--	--	--
22...	19	40	12	17	.6	1.9	160	0	131	54
DEC										
03...	--	--	--	--	--	--	--	--	--	--
22...	32	49	14	17	.6	1.4	180	0	148	62
JAN										
20...	--	--	--	--	--	--	--	--	--	--
24...	47	55	16	19	.6	1.9	180	3	153	72
FEB										
20...	37	52	15	20	.6	2.1	180	3	153	76
MAR										
04...	--	--	--	--	--	--	--	--	--	--
23...	27	49	15	20	.6	1.6	180	3	153	76
APR										
02...	--	--	--	--	--	--	--	--	--	--
24...	31	45	13	22	.7	3.3	170	0	139	72
MAY										
05...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
29...	11	40	13	15	.5	2.3	170	0	139	49
JUN										
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
29...	15	35	11	12	.5	1.4	140	0	115	35
JUL										
20...	--	--	--	--	--	--	--	--	--	--
26...	17	34	13	13	.5	1.2	150	0	123	32
28...	--	--	--	--	--	--	--	--	--	--
AUG										
23...	7	34	12	15	.6	6.3	150	0	123	39
31...	--	--	--	--	--	--	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--
20...	9	36	12	17	.6	1.6	160	0	131	44
22...	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)
OCT										
07...	--	--	--	--	--	--	--	--	--	--
24...	4.7	.3	7.0	202	.27	535	4	.05	.10	.00
NOV										
05...	--	--	--	--	--	--	--	--	--	--
22...	4.2	.3	6.1	215	.29	563	1	.02	.09	.00
DEC										
03...	--	--	--	--	--	--	--	--	--	--
22...	4.2	.3	7.9	243	.33	728	3	.07	.15	.01
JAN										
20...	--	--	--	--	--	--	--	--	--	--
24...	4.5	.3	8.6	272	.37	742	7	.07	.14	.02
FEB										
20...	4.5	.3	7.7	269	.37	770	3	.05	.11	.01
MAR										
04...	--	--	--	--	--	--	--	--	--	--
23...	4.9	.2	7.5	265	.36	1120	16	.07	.14	.00
APR										
02...	--	--	--	--	--	--	--	--	--	--
24...	5.4	.2	7.0	282	.34	1350	8	.09	.22	.09
MAY										
05...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
29...	4.5	.3	6.3	212	.29	4370	0	.20	.07	.11
JUN										
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
29...	3.7	.2	5.9	174	.24	770	7	.07	.09	.01
JUL										
20...	--	--	--	--	--	--	--	--	--	--
26...	1.9	.2	4.8	175	.24	1360	0	.32	.06	.08
28...	--	--	--	--	--	--	--	--	--	--
AUG										
23...	3.6	.2	5.0	194	.26	838	6	1.4	.35	.07
31...	--	--	--	--	--	--	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--
20...	2.1	.2	5.6	197	.27	479	0	.05	.11	.00
22...	--	--	--	--	--	--	--	--	--	--

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT										
07...	--	--	--	--	--	--	--	3	7.9	--
24...	.08	.08	.10	.01	4.5	--	--	--	--	--
NOV										
05...	--	--	--	--	--	--	--	2	5.2	--
22...	.49	.49	.58	.01	--	--	--	--	--	--
DEC										
03...	--	--	--	--	--	--	--	17	50	--
22...	.29	.30	.45	.01	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	2	5.5	--
24...	.31	.33	.47	.01	2.7	--	--	--	--	--
FEB										
20...	.29	.30	.41	.01	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	2	6.2	--
23...	.22	.22	.36	.05	--	--	--	--	--	--
APR										
02...	--	--	--	--	--	--	--	6	22	29
24...	1.1	1.2	1.4	.01	6.5	--	--	--	--	--
MAY										
05...	--	--	--	--	--	--	--	6	43	71
26...	--	--	--	--	--	--	--	9	186	69
29...	.74	.85	.92	.03	--	--	--	--	--	--
JUN										
16...	--	--	--	--	--	--	--	6	78	72
24...	--	--	--	--	--	--	--	10	52	29
26...	--	--	--	--	--	1900	1.5	--	--	--
29...	.49	.50	.59	.00	--	--	--	--	--	--
JUL										
20...	--	--	--	--	--	--	--	7	63	19
26...	.41	.41	.47	.02	4.3	--	--	--	--	--
28...	--	--	--	--	--	--	--	2	15	50
AUG										
23...	.10	.17	.52	.01	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	22	92	42
SEP										
14...	--	--	--	--	--	--	--	2	3.9	40
20...	.26	.26	.37	.00	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	5	12	76

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	SUS-PENDED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	SUS-PENDED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
OCT												
24...	1145	60	50	10	2	0	2	0	0	0	60	0
JAN												
24...	1015	90	90	0	1	0	1	0	0	10	60	<10
FEB												
20...	1500	--	--	--	--	--	--	--	--	--	120	--
MAR												
23...	1310	--	--	--	--	--	--	--	--	--	0	--
APR												
24...	1430	290	290	0	1	0	1	0	0	0	40	<10
MAY												
29...	1100	--	--	--	--	--	--	--	--	--	30	--
JUN												
29...	0930	--	--	--	--	--	--	--	--	--	20	--
JUL												
26...	0930	100	100	0	1	0	1	0	0	0	70	<10
AUG												
23...	0930	--	--	--	--	--	--	--	--	--	60	--
SEP												
20...	0945	--	--	--	--	--	--	--	--	--	80	--

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)
OCT 24...	0	0	0	0	10	0	0	0	50	20	600	600
JAN 24...	<10	0	0	0	0	30	30	0	10	0	<100	<98
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 23...	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	<7	3	0	0	0	<10	<6	4	490	30	<100	<98
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 26...	<8	2	0	0	0	<10	<8	2	100	20	<100	<97
AUG 23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	SUS-PENDED LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	SUS-PENDED MOLYB-DENUM (MO) (UG/L)
OCT 24...	2	6	6	0	10	0	20	.0	.0	.0	2	1
JAN 24...	2	10	10	0	30	10	20	.0	.0	.1	0	0
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 23...	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	2	20	20	0	40	30	10	.0	.0	.0	2	1
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 26...	3	10	5	5	30	30	0	.0	.0	.0	0	0
AUG 23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	SUS-PENDED NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 24...	1	0	0	2	0	0	0	1.1	30	20	10
JAN 24...	2	<50	<48	2	0	0	0	.5	40	40	0
FEB 20...	--	--	--	--	--	--	--	--	--	--	--
MAR 23...	--	--	--	--	--	--	--	--	--	--	--
APR 24...	1	<50	<47	3	0	0	0	.6	20	20	0
MAY 29...	--	--	--	--	--	--	--	--	--	--	--
JUN 29...	--	--	--	--	--	--	--	--	--	--	--
JUL 26...	1	<50	<48	2	0	0	0	.0	10	0	20
AUG 23...	--	--	--	--	--	--	--	--	--	--	--
SEP 20...	--	--	--	--	--	--	--	--	--	--	--

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	363	354	422	437	433	472	402	332	297	299	322
2	361	363	378	425	436	433	475	404	335	304	301	317
3	353	383	378	423	442	433	482	407	331	302	307	323
4	353	367	381	427	433	430	482	411	324	301	303	309
5	353	372	372	435	430	430	491	411	310	297	303	333
6	329	374	372	430	435	430	491	409	316	307	305	329
7	341	375	370	431	439	433	487	409	278	308	303	323
8	335	361	348	428	435	430	488	413	293	307	299	322
9	332	355	368	429	437	434	485	411	288	297	310	328
10	335	347	370	426	437	434	477	415	293	307	304	322
11	335	359	384	426	437	425	479	421	276	307	313	320
12	340	369	373	431	435	428	448	415	272	302	312	325
13	324	360	373	434	435	429	446	411	272	298	308	327
14	330	360	374	431	435	426	448	410	266	300	314	337
15	336	370	365	433	435	435	451	415	269	310	310	347
16	337	371	365	434	432	429	446	412	268	296	325	349
17	333	351	365	443	432	429	438	415	254	295	320	350
18	317	366	368	438	432	433	433	400	256	305	325	344
19	317	366	371	436	436	425	425	396	249	298	318	347
20	335	368	381	438	442	425	426	394	258	297	315	315
21	336	368	377	435	442	425	422	410	263	293	318	329
22	341	368	397	430	442	430	421	391	263	285	315	331
23	344	368	399	434	438	426	406	404	277	301	320	334
24	339	364	415	425	438	428	401	363	280	296	323	327
25	339	365	413	442	439	440	399	369	283	300	322	340
26	342	365	404	439	438	441	396	383	281	297	322	333
27	356	368	414	435	434	438	401	364	278	325	324	333
28	345	366	416	435	434	438	402	359	291	294	323	364
29	346	360	423	433	437	463	402	336	301	299	326	375
30	351	366	419	434	---	469	408	338	308	306	312	377
31	347	---	405	437	---	463	---	333	---	306	310	---
MONTH	340	365	384	432	436	434	444	395	286	301	313	334
YEAR	MAX	491	MIN	249	MEAN	372						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	8.5	3.0	2.0	3.5	3.0	5.0	7.0	14.0	16.0	20.5	19.0
2	12.0	9.0	3.0	2.0	3.0	3.0	5.5	7.5	15.0	18.0	20.5	19.0
3	12.5	8.0	3.0	2.0	3.0	3.0	5.5	7.5	15.5	18.0	20.5	19.0
4	12.5	9.5	3.5	2.0	2.0	2.5	6.0	7.5	15.5	18.0	20.5	19.0
5	12.5	9.5	4.0	2.0	2.0	2.5	4.5	8.0	15.5	18.0	20.5	19.0
6	12.5	9.5	3.5	2.0	2.0	3.0	4.5	8.0	15.5	18.0	20.5	17.0
7	12.5	9.0	3.5	2.0	2.0	3.5	5.0	8.5	15.0	18.5	20.5	17.0
8	12.0	8.0	3.5	2.0	2.0	3.5	5.0	9.0	15.0	18.5	20.5	17.0
9	12.0	6.0	3.5	2.0	2.0	3.5	5.0	10.0	15.0	18.0	20.5	17.0
10	12.0	6.0	3.0	2.0	2.0	3.5	5.0	10.0	15.0	18.5	20.5	17.0
11	12.0	6.0	3.0	2.0	2.0	3.5	5.0	10.0	13.0	20.0	20.5	17.0
12	12.0	7.0	2.0	2.0	2.0	4.0	5.0	10.0	13.0	20.0	20.5	17.0
13	10.0	7.0	2.0	2.0	2.0	3.5	5.0	10.0	12.5	20.5	20.5	17.0
14	10.0	7.0	2.0	2.0	2.0	3.0	5.5	10.0	13.0	20.5	20.5	17.0
15	10.0	7.0	1.5	2.0	2.0	3.0	5.0	10.0	13.0	20.5	20.5	16.0
16	10.0	7.0	2.0	2.0	4.0	3.5	5.0	10.0	13.0	20.5	19.0	15.5
17	10.0	6.0	2.0	2.0	4.0	4.0	5.0	10.5	13.0	20.5	19.0	16.0
18	10.0	5.0	2.0	2.0	4.0	5.0	5.0	10.5	13.0	20.5	19.0	17.0
19	10.0	5.0	2.0	2.0	4.0	3.0	5.0	10.5	13.5	20.5	19.0	17.0
20	9.0	5.0	2.0	2.0	3.0	3.0	5.5	10.0	14.0	20.5	19.0	17.0
21	8.5	5.0	2.0	3.0	3.0	3.0	6.0	10.0	13.0	20.5	19.0	17.0
22	8.0	5.0	2.0	5.0	3.0	4.0	6.5	10.0	13.0	20.5	19.0	17.0
23	7.0	5.0	2.0	5.0	3.0	5.0	6.5	10.0	13.0	20.5	19.0	17.0
24	7.0	7.0	2.0	3.0	3.0	5.0	6.5	10.5	13.0	20.5	19.0	17.0
25	7.0	7.0	2.0	2.0	4.0	4.0	6.5	11.5	13.0	20.5	19.0	17.0
26	7.5	6.0	2.0	3.0	4.0	4.0	6.0	12.0	14.0	20.5	19.0	17.0
27	10.0	6.0	2.0	3.0	4.0	4.0	6.0	13.0	14.0	20.5	19.0	17.0
28	10.0	5.5	2.0	3.0	3.5	4.0	6.0	13.0	14.0	20.5	19.0	17.0
29	10.0	5.0	2.0	3.5	3.5	4.0	7.0	13.0	16.0	20.5	19.0	17.0
30	10.0	5.0	2.0	3.5	---	4.0	7.0	14.0	16.0	20.5	19.0	17.0
31	10.0	---	2.0	3.5	---	5.0	---	14.0	---	20.5	19.0	---
MONTH	10.5	6.5	2.5	2.5	3.0	3.5	5.5	10.0	14.0	19.5	19.5	17.0
YEAR	MAX	20.5	MIN	1.5	MEAN	9.5						

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUN 26.76
TIME	1030
TOTAL CELLS/ML	1900
DIVERSITY: DIVISION	1.0
.CLASS	1.0
..ORDER	1.4
...FAMILY	2.4
....GENUS	2.5

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	65	4
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	65	4
....STEPHANODISCUS	65	4
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	65	4
...CYMBELLACEAE		
....CYMBELLA	65	4
...DIATOMACEAE		
....DIATOMA	770#	42
...GOMPHONEMATACEAE		
....GOMPHONEMA	65	4
...NAVICULACEAE		
....NAVICULA	65	4
...NITZSCHIACEAE		
....NITZSCHIA	130	7
EUGLENOPHYTA (EUGLENOIDS)		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	520#	28

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JUNE 26, 1976
1030 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
E	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
O	....EPITHEMIA	
	...DIATOMACEAE	
E	....DIATOMA	
	...FRAGILARIACEAE	
O	....ASTERIONELLA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....TRACHELOMONAS	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WY

LOCATION (REVISED).--Lat 42°34'17", long 109°16'58", in sec.17, T.30 N., R.104 W., Sublette County, Hydrologic Unit 14040104, on left bank at Leckie Ranch, 0.1 mi (0.2 km) downstream from Squaw Creek, and 10.1 mi (16.3 km) southeast of Big Sandy.

DRAINAGE AREA.--94 mi² (243 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to November 1910, May to August 1911, July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Published as Big Sandy Creek near Big Sandy 1910-11 and in WSP 618, and as Big Sandy Creek at Leckie Ranch, near Big Sandy July 1939 to October 1968.

REVISED RECORDS.--WSP 2125: 1963, 1964(P), 1965.

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (2,377 m), by barometer. See WSP 1733 for history of changes prior to July 24, 1939. July 24, 1939, to June 1, 1961, water-stage recorder at site 75 ft (23 m) downstream at present datum.

REMARKS.--Records good except those for period of no gage-height record, Mar. 9 to Apr. 8, which are poor. Diversions for irrigation of about 750 acres (3.04 km²) above station. Result of discharge measurement, in cubic feet per second, made during the period when station was not in operation, is given below:

Oct. 6 . . 16

AVERAGE DISCHARGE.--32 years (water years 1940-71), 86.0 ft³/s (2.436 m³/s), 62,310 acre-ft/yr (76.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft³/s (44.7 m³/s) June 10, 1965, gage height, 9.06 ft (2.761 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s); minimum daily, 3.0 ft³/s (0.085 m³/s) Dec. 17, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11.3 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 20	2300	662	18.7	7.02	2.140	June 22	0730	513	14.5	6.54	1.993
June 7	0700	*753	21.3	7.28	2.219	July 2	0700	552	15.6	6.67	2.033

Minimum daily discharge during period of operation, 11 ft³/s (0.31 m³/s) Mar. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						15	18	49	449	457	163	29
2						14	17	67	544	473	156	27
3						13	18	70	627	376	154	25
4						13	18	78	606	361	124	22
5						12	17	80	627	356	105	21
6						11	16	83	631	344	90	22
7						12	15	77	657	307	78	24
8						12	14	86	603	303	69	23
9						13	15	98	569	288	62	22
10						13	16	119	587	278	57	22
11						14	17	156	548	260	54	22
12						14	18	175	435	239	50	26
13						13	19	202	373	228	47	27
14						13	19	276	305	195	44	26
15						14	20	342	276	174	42	25
16						14	19	302	332	159	40	24
17						15	18	298	282	148	38	23
18						15	18	408	289	151	37	22
19						16	19	512	267	154	39	24
20						15	20	559	292	145	36	24
21						14	21	556	401	132	33	23
22						14	23	473	458	120	32	22
23						15	25	392	429	110	34	22
24						16	27	394	303	102	35	23
25						15	29	372	272	97	32	23
26						14	30	369	234	94	33	23
27						15	28	461	224	89	38	29
28						14	27	559	254	82	34	27
29						15	26	565	318	77	31	25
30						16	35	532	380	77	30	24
31						17	---	429	---	79	29	---
TOTAL						436	622	9139	12572	6455	1846	721
MEAN						14.1	20.7	295	419	208	59.5	24.0
MAX						17	35	565	657	473	163	29
MIN						11	14	49	224	77	29	21
AC-FT						865	1230	18130	24940	12800	3660	1430

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT									
06...	1410	16	92	10.0	1	--	--	--	--
MAR									
04...	0810	A 13	54	.0	1	--	--	--	--
APR									
08...	0805	A 14	94	.0	1	--	--	--	--
30...	1345	36	120	5.5	2	52	8	16	3.0
MAY									
12...	0815	140	37	.0	2	--	--	--	--
20...	1345	507	41	8.5	2	--	--	--	--
JUN									
09...	1200	595	28	9.0	2	--	--	--	--
JUL									
08...	1700	286	22	16.5	1	9	0	2.6	.5
23...	1310	114	45	16.0	2	--	--	--	--
AUG									
30...	1300	30	30	13.5	1	19	1	6.3	.9

A Daily mean discharge.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT									
06...	--	--	--	--	--	--	--	--	--
MAR									
04...	--	--	--	--	--	--	--	--	--
APR									
08...	--	--	--	--	--	--	--	--	--
30...	3.5	.2	2.7	72	59	2.0	2.2	.1	13
MAY									
12...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
JUN									
09...	--	--	--	--	--	--	--	--	--
JUL									
08...	.9	.1	.4	11	9	3.3	.6	.1	4.2
23...	--	--	--	--	--	--	--	--	--
AUG									
30...	1.6	.2	.8	22	18	8.1	.8	.1	5.5

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT									
06...	--	--	--	--	--	--	2	.09	--
MAR									
04...	--	--	--	--	--	--	4	.14	--
APR									
08...	--	--	--	--	--	--	3	.11	48
30...	80	.11	7.78	.21	20	570	4	.39	71
MAY									
12...	--	--	--	--	--	--	16	6.0	30
20...	--	--	--	--	--	--	5	6.8	54
JUN									
09...	--	--	--	--	--	--	10	16	78
JUL									
08...	18	.02	13.9	.03	4	250	14	11	40
23...	--	--	--	--	--	--	3	.92	52
AUG									
30...	35	.05	2.04	.04	10	200	32	2.6	46

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
AUG									
30...	1300	30	13.5	5	7	12	21	38	71

09213500 BIG SANDY RIVER NEAR FARSON, WY

LOCATION.--Lat 42°19'01", long 109°29'06", in NW¼SE¼NW¼ sec.17, T.27 N., R.106 W., Sublette County, Hydrologic Unit 14040104, on left upstream side of Eden Canal diversion, about 1.0 mi (1.6 km) upstream from high-water line of Big Sandy Reservoir, 14.5 mi (23.3 km) north of Farson, and 24.5 mi (39.4 km) upstream from Little Sandy Creek.

DRAINAGE AREA.--322 mi² (834 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to September 1917, October 1920 to October 1924, October 1926 to September 1934, April 1953 to current year (no winter records since 1971). Prior to October 1968, published as Big Sandy Creek near Farson. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,770 ft (2,063 m), from topographic map. Prior to Apr. 28, 1921, nonrecording gage, and Apr. 28, 1921, to Aug. 3, 1934, water-stage recorder at site 0.5 mi (0.8 km) upstream at different datum. Apr. 17, 1953, to Nov. 11, 1954, water-stage recorder at site 1.5 mi (2.4 km) upstream at different datum.

REMARKS.--Records good except those for April, which are poor. Diversions for irrigation of about 1,000 acres (4.05 km²) above station. The Eden Canal, which bypasses the station, has not been used since station was established at present site in November 1954. Results of a discharge measurment, in cubic feet per second, made during the period when station was not in operation is given below:

Mar. 30 . . 20

AVERAGE DISCHARGE.--33 years (water years 1915-17, 1921-24, 1927-34, 1954-71), 86.5 ft³/s (2.450 m³/s), 62,700 acre-ft/yr (77.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft³/s (41.9 m³/s) June 9, 1972, gage height, 8.10 ft (2.469 m); no flow Jan. 27-31, 1963, and may have also reached no flow in previous years during periods of ice effect.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft³/s (9.91 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 21	2030	642	18.2	6.78	2.067	June 23	0100	498	14.1	6.46	1.969
June 8	0430	*705	20.0	6.91	2.106	July 3	0400	516	14.6	6.42	1.957

Minimum daily discharge during period of operation, 22 ft³/s (0.62 m³/s) Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							22	51	456	390	140	30
2							24	59	483	453	164	28
3							30	81	561	459	178	27
4							40	94	622	380	170	26
5							55	98	598	366	142	24
6							74	97	610	360	120	24
7							65	111	614	342	102	24
8							61	90	634	307	92	24
9							70	98	590	303	81	24
10							85	114	561	289	75	24
11							110	126	567	277	69	24
12							120	164	537	259	65	24
13							110	185	440	238	61	24
14							97	199	390	226	57	26
15							82	281	318	200	53	28
16							83	364	280	182	50	26
17							78	311	326	171	45	26
18							63	305	288	160	46	24
19							58	420	292	159	44	24
20							55	525	262	165	43	24
21							54	564	276	153	40	25
22							59	561	382	141	38	25
23							58	495	440	131	36	25
24							60	422	415	118	36	25
25							69	422	308	109	36	25
26							88	400	279	105	36	26
27							75	396	240	101	36	28
28							56	486	225	98	36	28
29							54	555	249	92	36	29
30							51	564	299	90	33	28
31							---	528	---	90	31	---
TOTAL							2006	9166	12542	6914	2191	769
MEAN							66.9	296	418	223	70.7	25.6
MAX							120	564	634	459	178	30
MIN							22	51	225	90	31	24
AC-FT							3980	18180	24880	13710	4350	1530

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-64, 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 06...	1550	16	215	--	14.5	2	--	--	--	--
JAN 28...	1520	4.5	138	8.6	.0	--	--	--	--	--
MAR 30...	1215	A20	160	--	.0	2	--	--	--	--
MAY 03...	1340	87	205	--	15.5	70	57	0	21	1.0
20...	1015	501	--	--	10.0	120	--	--	--	--
28...	0800	442	55	--	11.0	55	21	0	7.0	.9
JUN 21...	1615	266	53	--	19.5	25	22	0	7.2	.9
JUL 06...	1700	334	<50	--	21.5	25	--	--	--	--
19...	1625	165	60	--	20.0	8	--	--	--	--
26...	1615	104	60	--	26.0	5	--	--	--	--
SEP 02...	1300	29	130	--	19.5	1	47	6	16	1.8

A Daily mean discharge.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT 06...	--	--	--	--	--	--	--	--	--	--
JAN 28...	--	--	--	--	--	--	--	--	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	--
MAY 03...	18	1.0	2.5	82	67	30	3.9	.2	11	128
20...	--	--	--	--	--	--	--	--	--	--
28...	2.8	.3	.6	29	24	6.9	.8	.1	7.6	41
JUN 21...	3.8	.4	.8	32	26	9.8	1.5	.1	8.8	48
JUL 06...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
SEP 02...	7.1	.4	1.1	50	41	14	1.2	.1	5.3	71

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 06...	--	--	--	--	--	--	10	.40	--
JAN 28...	--	--	--	--	--	460	--	--	--
MAR 30...	--	--	--	--	--	--	10	.54	64
MAY 03...	.17	30.1	.04	40	90	--	386	73	--
20...	--	--	--	--	--	--	472	638	94
28...	.06	48.9	--	20	140	--	504	601	56
JUN 21...	.07	34.5	--	10	120	--	293	210	39
JUL 06...	--	--	--	--	--	--	198	179	52
19...	--	--	--	--	--	--	247	110	--
26...	--	--	--	--	--	--	40	11	63
SEP 02...	.10	5.56	.02	20	20	--	103	8.1	40

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
MAY							
03...	1340	88	15.5	29	1	1	12
JUL							
26...	1615	104	23.5	30	1	3	8

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
MAY						
03...	48	74	88	97	99	100
JUL						
26...	45	67	88	98	100	--

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

JAN. 28, 1976
1520 HOURS

IDENTIFICATION OF PHYTOPLANKTON

460 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		11	2
	...CYMBELLACEAE			
	....CYMBELLA		11	2
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		54	12
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		160	36
	...NITZSCHIACEAE			
D	....NITZSCHIA		180	40
	...SURIRELLACEAE			
	....SURIRELLA		33	7

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
FAMILY 1.953
GENERA 1.953

PERIPHYTON ANALYSES

JAN. 28, 1976
1520 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
E	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
E	....SURIRELLA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY

LOCATION.--Lat 42°14'12", long 109°18'44", in SE¼SW¼SW¼ sec.11, T.26 N., R.105 W., Sweetwater County, Hydrologic Unit 14040104, on right bank 1.6 mi (2.6 km) upstream from diversion to Eden No. 2 Reservoir, 11 mi (18 km) northeast of Farson, and 14 mi (23 km) northeast of Eden.

DRAINAGE AREA (REVISED).--134 mi^2 (347 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft (2,057 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 1,220 acres (4.94 km^2), of which about 150 acres (61 hm^2) lies below station.

AVERAGE DISCHARGE.--22 years, 18.9 ft^3/s (0.535 m^3/s), 13,690 acre-ft/yr (16.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 386 ft^3/s (10.9 m^3/s) June 17, 1963, gage height, 8.57 ft (2.612 m); maximum gage height, 10.34 ft (3.152 m) Apr. 6, 1976 (backwater from ice); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 134 ft^3/s (3.79 m^3/s) June 13, gage height, 7.45 ft (2.271 m); maximum gage height, 10.34 ft (3.152 m) Apr. 6 (backwater from ice); minimum daily discharge, 3.7 ft^3/s (0.10 m^3/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	9.6	7.5	5.1	4.6	5.5	10	26	92	53	62	7.2
2	5.4	9.5	7.7	5.0	4.7	5.3	12	32	81	77	64	6.8
3	4.6	9.6	8.0	4.9	4.6	5.1	12	40	87	104	71	6.5
4	4.8	10	7.9	4.8	4.4	4.9	13	48	96	115	55	5.9
5	5.6	10	7.7	4.9	4.2	4.9	15	57	114	94	46	5.6
6	6.5	10	7.9	4.8	4.0	5.0	18	58	128	90	34	5.6
7	6.5	9.3	8.0	4.7	3.9	5.2	26	50	123	90	28	5.9
8	7.1	9.3	8.3	4.8	4.0	5.4	26	34	124	81	28	5.6
9	8.6	9.2	8.5	4.9	4.1	5.5	25	40	126	73	25	6.2
10	9.6	8.9	8.7	5.1	4.2	5.7	24	44	119	72	23	6.2
11	9.3	8.7	8.8	5.0	4.3	5.7	23	44	120	71	21	6.2
12	10	8.9	8.6	4.8	4.4	5.5	25	50	125	71	21	5.9
13	11	9.3	8.3	4.7	4.4	5.3	28	47	128	67	20	6.2
14	11	9.5	7.9	4.8	4.3	5.5	32	44	105	58	17	6.2
15	11	9.9	7.5	4.9	4.2	5.7	36	53	86	53	15	4.8
16	11	10	7.1	4.8	4.1	5.9	38	69	65	46	15	4.4
17	11	9.9	6.7	4.7	4.0	6.2	35	57	52	39	14	3.8
18	11	9.5	6.5	4.6	3.9	6.3	31	45	51	34	13	3.8
19	10	9.1	6.1	4.4	3.9	6.1	26	54	51	34	12	4.4
20	10	8.7	6.3	4.2	3.8	5.9	23	60	49	36	11	4.8
21	9.3	8.3	6.5	4.1	3.8	6.1	22	62	36	32	10	4.8
22	8.9	8.1	6.4	4.0	3.7	6.5	26	75	33	29	9.5	5.4
23	8.9	7.9	6.3	3.9	3.8	7.0	26	82	52	26	8.9	5.1
24	8.8	8.1	6.1	3.8	4.2	6.8	28	77	81	24	8.9	4.8
25	8.6	8.3	6.0	3.8	4.5	6.7	32	71	76	22	8.9	5.4
26	8.9	8.3	5.9	3.8	4.8	6.5	43	95	57	21	8.9	5.6
27	9.3	8.0	5.7	4.0	5.1	6.4	35	89	49	20	8.9	6.5
28	10	7.7	5.6	4.1	5.4	6.7	28	82	38	19	8.9	6.5
29	9.7	7.5	5.5	4.2	5.7	7.1	27	81	34	18	8.9	7.1
30	9.4	7.3	5.4	4.3	---	7.7	26	88	40	18	8.4	6.5
31	9.0	---	5.3	4.4	---	8.6	---	96	---	17	8.0	---
TOTAL	270.7	268.4	218.7	140.3	125.0	186.7	771	1850	2418	1604	693.2	169.7
MEAN	8.73	8.95	7.05	4.53	4.31	6.02	25.7	59.7	80.6	51.7	22.4	5.66
MAX	11	10	8.8	5.1	5.7	8.6	43	96	128	115	71	7.2
MIN	4.6	7.3	5.3	3.8	3.7	4.9	10	26	33	17	8.0	3.8
AC-FT	537	532	434	278	248	370	1530	3670	4800	3180	1370	337

CAL YR 1975 TOTAL 10000.10 MEAN 27.4 MAX 214 MIN 0 AC-FT 19840
WTR YR 1976 TOTAL 8715.70 MEAN 23.8 MAX 128 MIN 3.7 AC-FT 17290

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-64, 1969, 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
OCT											
06...	1420	6.8	460	--	14.5	1	--	--	--	--	--
NOV											
03...	1250	8.6	580	--	5.5	3	--	--	--	--	--
DEC											
07...	1345	A8.0	400	--	.0	2	--	--	--	--	--
JAN											
22...	1340	A4.0	420	--	.0	1	--	--	--	--	--
MAR											
06...	1105	A5.0	350	--	.0	3	--	--	--	--	--
30...	1520	A7.7	375	--	.0	4	--	--	--	--	--
MAY											
03...	1340	41	580	--	12.5	30	--	140	29	42	9.2
21...	1035	64	190	--	11.0	35	--	--	--	--	--
28...	1330	87	152	--	15.0	50	--	43	3	13	2.5
JUN											
21...	1315	36	315	--	18.5	15	--	--	--	--	--
29...	1200	33	230	7.5	17.5	--	8.1	--	--	--	--
JUL											
06...	1300	89	95	--	19.5	30	--	34	2	11	1.7
19...	1315	35	195	--	19.5	8	--	--	--	--	--
26...	1215	20	210	--	21.0	--	--	61	17	19	3.4
26...	1230	20	200	--	20.5	5	--	--	--	--	--
AUG											
23...	1135	9.0	280	--	18.5	--	--	88	27	28	4.5
SEP											
02...	1530	6.5	270	--	21.5	2	--	81	22	26	4.0
15...	0930	5.4	300	--	11.0	--	--	76	23	24	4.0

A Daily mean discharge.

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
NOV											
03...	--	--	--	--	--	--	--	--	--	--	--
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
JAN											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
06...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	68	2.5	3.7	139	114	140	20	.4	12	364	.50
21...	--	--	--	--	--	--	--	--	--	--	--
28...	13	.9	.9	48	39	33	2.5	.1	7.8	97	.13
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
06...	5.7	.4	.8	40	33	17	2.1	.1	5.7	64	.09
19...	--	--	--	--	--	--	--	--	--	--	--
26...	14	.8	1.3	54	44	45	2.0	.1	5.8	117	.16
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	20	.9	1.6	75	62	64	2.7	.4	6.4	165	.22
SEP											
02...	21	1.0	1.4	72	59	60	2.6	.2	5.4	156	.21
15...	23	1.1	1.5	65	53	71	3.6	.2	4.5	165	.22

GREEN RIVER BASIN

09216500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
[illegible]	--	--	--	--	--	--	--	8	.15	--
[illegible]	--	--	--	--	--	--	--	16	.37	--
[illegible]	--	--	--	--	--	--	--	2	.06	--
[illegible]	--	--	--	--	--	--	--	11	.12	--
[illegible]	--	--	--	--	--	--	--	22	.30	--
[illegible]	--	--	--	--	--	--	--	68	.06	61
[illegible]	60.3	--	.09	--	--	--	--	141	15	90
[illegible]	--	--	--	--	--	--	--	182	28	87
[illegible]	88.9	--	--	--	--	--	--	262	62	77
[illegible]	--	--	--	--	--	--	--	87	8.5	76
[illegible]	--	--	--	--	--	--	--	--	--	--
[illegible]	15.6	--	--	--	--	--	--	206	40	73
[illegible]	--	--	--	--	--	--	--	48	4.5	85
[illegible]	8.38	.01	.00	.00	.07	.08	.05	--	--	--
[illegible]	--	--	--	--	--	--	--	56	1.8	76
[illegible]	4.61	--	.00	--	--	--	.08	--	--	--
[illegible]	2.76	--	.03	--	--	--	--	61	.72	84
[illegible]	2.44	--	.18	--	--	--	.03	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
[illegible]	1200	--	--	--	--	--	--	50	--	--	--
[illegible]	1000	--	--	--	--	--	--	20	--	--	--
[illegible]	1000	--	--	--	--	--	--	17	--	--	--
[illegible]	1030	--	--	--	--	--	--	20	--	--	--
[illegible]	0930	800	20	1	1	0	0	--	<10	1	0

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
[illegible]	--	--	--	--	160	--	--	--	--	--	--
[illegible]	--	--	--	--	110	--	--	--	--	--	--
[illegible]	--	--	--	--	90	--	--	--	--	--	--
[illegible]	--	--	--	--	70	--	--	--	--	--	--
[illegible]	10	10	3	400	70	<100	0	10	10	80	0

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
[illegible]	--	--	--	--	--	--	--	--	--	--	--
[illegible]	--	--	--	--	--	--	--	--	--	--	--
[illegible]	--	--	--	--	--	--	--	--	--	--	--
[illegible]	--	--	--	--	--	--	--	--	--	--	--
[illegible]	.0	.0	0	0	<50	1	0	0	0.0	80	10

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
[illegible]	1040	40	16.0	7	2	5	10
[illegible]	1000	20	20.0	5	2	2	6

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
[illegible]	40	54	73	87	98	100
[illegible]	36	60	68	87	100	--

09215000 PACIFIC CREEK NEAR FARSON, WY

LOCATION.--Lat 42°07'47", long 109°19'23", in NW¼SW¼NE¼ sec.22, T.25 N., R.105 W., Sweetwater County, Hydrologic Unit 14040104, at former discharge station, 200 ft (61 m) upstream from Eden Canal siphon, 6.3 mi (10.1 km) east of Farson, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--500 mi² (1,300 km²), approximately.

PERIOD OF RECORD.--April to May 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR											
07...	1130	52	970	--	1.0	700	--	110	0	20	14
08...	1900	100	700	8.2	.0	600	10.6	57	0	11	7.1
10...	1130	200	825	--	4.5	700	--	88	0	17	11
12...	1015	300	480	--	6.0	1200	--	52	0	11	5.9
MAY											
03...	0900	6.6	2300	8.0	8.5	50	--	340	0	61	45

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR										
07...	150	6.3	2.7	153	--	126	280	4.6	.3	9.6
08...	120	6.9	2.4	156	0	128	190	4.7	.4	9.3
10...	140	6.5	3.0	181	--	148	250	4.8	.4	9.8
12...	82	5.0	2.2	152	--	125	110	3.9	.3	6.3
MAY										
03...	480	11	6.3	415	--	340	890	39	1.0	12

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR										
07...	556	.76	78.3	.01	110	60	--	1400	197	100
08...	421	.57	114	.11	60	170	2000	980	265	98
10...	523	.71	282	.04	90	150	--	1400	756	99
12...	297	.40	241	.02	60	290	--	--	--	--
MAY										
03...	1710	2.33	30.5	.06	260	40	--	120	2.1	97

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAY							
03...	0900	6.6	8.5	2	4	8	20

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAY							
03...	38	44	55	65	73	88	100

09215000 PACIFIC CREEK NEAR FARSON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	APR 8,76
TIME	1900
TOTAL CELLS/ML	2000
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	2.0
....GENUS	2.2

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	290	14
....EPITHEMIA	290	14
...FRAGILARIACEAE		
....SYNEDRA	290	14
...NAVICULACEAE		
....NAVICULA	580#	29
...NITZSCHIACEAE		
....NITZSCHIA	580#	29
...SURIRELLACEAE		
....SURIRELLA	*	0

NOTE: # - DOMINANT ORGANISM, EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216000 BIG SANDY RIVER BELOW EDEN, WY

LOCATION.--Lat 42°00'37", long 109°34'57", in NE¼SE¼SW¼ sec.31, T.24 N., R.107 W., Sweetwater County, Hydrologic Unit 14040104, on right bank 0.1 mi (0.2 km) downstream from Simpson Gulch, 8.0 mi (12.9 km) southwest of Eden, and 12.5 mi (20.1 km) downstream from Little Sandy Creek.

DRAINAGE AREA.--1,610 mi² (4,170 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1968, published as Big Sandy Creek below Eden.

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (1,966 m), from topographic map.

REMARKS.--Records good except those for winter period and periods of no gage-height record, Feb. 22 to Mar. 29, Mar. 31 to May 6, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres (78.1 km²) above station.

AVERAGE DISCHARGE.--22 years, 47.6 ft³/s (1.348 m³/s), 34,490 acre-ft/yr (42.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,440 ft³/s (40.8 m³/s) Mar. 28, 1971, gage height, 6.47 ft (1.972 m), from floodmarks; maximum gage height, 7.22 ft (2.201 m) Mar. 20, 1956 (backwater from ice); minimum daily dishcarge, 0.1 ft³/s (0.003 m³/s) Feb. 24, Feb. 26 to Mar. 1, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 400 ft³/s (11.3 m³/s) about Apr. 13, gage height, 4.0 ft (1.22 m) from floodmarks; minimum daily, 19 ft³/s (0.54 m³/s) Feb. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	50	33	31	28	23	15	47	48	88	109	71
2	54	50	35	30	29	22	70	44	49	93	144	71
3	53	48	36	30	24	21	70	42	51	97	152	70
4	52	47	37	29	24	20	10	43	50	91	110	66
5	51	46	39	29	23	20	18	44	61	97	90	64
6	51	45	43	28	23	21	18	47	64	103	78	66
7	51	44	42	28	24	22	24	45	70	98	78	78
8	53	44	45	27	25	23	10	41	74	86	65	72
9	54	40	46	28	25	23	20	39	70	91	66	65
10	54	36	46	29	24	25	29	39	68	88	61	67
11	54	29	47	28	25	26	20	39	70	86	62	67
12	54	28	48	28	24	25	20	36	91	90	65	67
13	54	37	45	29	23	25	20	35	98	94	69	65
14	55	43	41	30	24	27	28	35	130	98	68	65
15	54	44	40	32	24	30	10	46	117	88	71	67
16	53	43	39	31	24	33	10	50	93	88	75	67
17	52	42	37	30	23	39	10	48	88	84	75	66
18	51	42	35	29	24	46	9	42	115	86	73	61
19	51	35	32	28	23	47	9	37	107	91	75	59
20	50	28	32	29	23	45	7	37	104	98	75	56
21	50	27	33	30	22	43	6	38	125	103	71	57
22	49	29	34	30	21	48	8	53	149	98	69	58
23	49	28	33	29	19	52	7	66	193	91	73	57
24	48	30	35	28	22	57	7	77	245	91	74	55
25	48	30	38	30	23	62	6	73	233	87	73	56
26	46	27	34	32	23	66	6	66	191	95	74	55
27	48	25	34	30	27	66	6	59	143	91	77	55
28	48	29	35	30	28	63	6	51	110	86	82	55
29	48	27	33	30	28	61	6	46	91	84	78	56
30	48	30	33	27	---	58	7	46	82	95	75	53
31	48	---	32	27	---	62	---	48	---	106	75	---
TOTAL	1579	1164	1166	892	686	1197	371	1459	3182	2868	2474	1885
MEAN	50.9	38.8	37.6	28.8	23.7	38.6	[illegible]	47.1	106	92.5	79.8	62.8
MAX	56	50	48	32	29	66	[illegible]	77	245	106	152	78
MIN	46	25	32	27	19	20	[illegible]	35	48	84	61	53
AC-FT	3130	2310	2310	1770	1360	2370	[illegible]	2890	6310	5690	4910	3740

CAL YR 1975 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN 19 AC-FT [illegible]
WTR YR 1976 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN 19 AC-FT [illegible]

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-64, 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT										
06...	1250	51	4000	--	11.0	2	--	--	--	--
NOV										
05...	0930	46	2500	--	2.0	2	--	--	--	--
22...	1030	A28	3200	7.9	.5	4	10.4	B6	1100	840
DEC										
03...	1400	36	2700	--	4.0	1	--	--	--	--
22...	1015	A34	2600	7.9	.5	3	11.0	B6	1100	850
JAN										
22...	1015	A30	1250	--	.0	2	--	--	--	--
24...	1200	A28	2800	7.9	2.0	4	10.2	B4	1200	960
MAR										
06...	0840	A21	2800	--	.0	2	--	--	--	--
23...	1500	A52	--	--	7.0	--	--	--	1000	770
29...	1400	A61	1900	--	6.5	15	--	--	--	--
30...	1440	61	1900	--	6.5	--	--	--	--	--
APR										
24...	1615	A77	1800	7.9	11.0	280	8.7	B16	370	180
MAY										
06...	1500	47	2600	--	11.5	30	--	--	--	--
24...	1235	77	2900	--	16.0	80	--	--	--	--
29...	1215	48	2700	8.3	17.5	50	8.5	B26	710	460
JUN										
25...	0930	243	680	--	12.0	40	--	--	--	--
29...	1330	88	1600	8.2	20.0	1	8.3	40	480	310
JUL										
06...	1220	104	1600	--	23.5	8	--	--	--	--
26...	1330	98	2000	8.2	21.0	1	9.4	B30	610	420
26...	1500	98	1850	--	23.5	4	--	--	--	--
AUG										
23...	1240	73	2200	8.2	18.0	4	8.8	46	700	500
SEP										
02...	1430	73	2000	--	17.0	2	--	--	--	--
15...	1100	66	2600	8.0	13.0	1	9.4	B30	850	640

A Daily mean discharge.
B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT										
06...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	--	--	--	--	--	--	--	--	--	--
22...	310	86	380	4.9	4.2	320	0	263	1600	53
DEC										
03...	--	--	--	--	--	--	--	--	--	--
22...	280	97	350	4.6	3.3	310	0	254	1500	48
JAN										
22...	--	--	--	--	--	--	--	--	--	--
24...	290	110	350	4.6	4.2	300	0	246	1600	65
MAR										
06...	--	--	--	--	--	--	--	--	--	--
23...	220	120	460	6.2	4.2	280	0	230	1700	42
29...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
APR										
24...	91	35	250	5.6	3.7	230	0	189	680	33
MAY										
06...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
29...	170	68	380	6.6	3.7	310	0	250	1030	63
JUN										
25...	--	--	--	--	--	--	--	--	--	--
29...	130	38	[illegible]	[illegible]	[illegible]	210	0	172	710	[illegible]
JUL										
06...	--	--	--	--	--	--	--	--	--	--
26...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]
26...	--	--	--	--	--	--	--	--	--	--
AUG										
23...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]
SEP										
02...	--	--	--	--	--	--	--	--	--	--
15...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	SUS-PENDED SOLIDS (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT										
06...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	--	--	--	--	--	--	--	--	--	--
22...	1.2	12	--	2580	3.51	195	--	21	.75	1.2
DEC										
03...	--	--	--	--	--	--	--	--	--	--
22...	1.2	15	--	2470	3.36	227	--	6	.95	1.3
JAN										
22...	--	--	--	--	--	--	--	--	--	--
24...	1.2	14	--	2580	3.51	195	--	6	.88	1.5
MAR										
06...	--	--	--	--	--	--	--	--	--	--
23...	1.3	11	--	2700	3.67	379	--	--	.25	--
29...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
APR										
24...	.9	12	--	1220	1.66	254	--	372	.20	.28
MAY										
06...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
29...	1.2	12	2200	2100	2.86	272	94	77	.34	.24
JUN										
25...	--	--	--	--	--	--	--	--	--	--
29...	.9	12	--	1220	1.66	290	--	60	.20	.59
JUL										
06...	--	--	--	--	--	--	--	--	--	--
20...	1.0	9.5	--	1350	1.84	357	--	11	1.1	.44
26...	--	--	--	--	--	--	--	--	--	--
AUG										
23...	.9	12	--	1570	2.14	309	--	0	1.1	.71
SEP										
02...	--	--	--	--	--	--	--	--	--	--
15...	1.1	8.0	--	1850	2.52	330	--	12	.66	.66

DATE	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT									
06...	--	--	--	--	--	--	3	.41	--
NOV									
05...	--	--	--	--	--	--	12	1.5	--
22...	.00	.88	.88	2.1	.04	7.3	--	--	--
DEC									
03...	--	--	--	--	--	--	7	.68	--
22...	.01	.32	.33	1.6	.02	--	--	--	--
JAN									
22...	--	--	--	--	--	--	39	3.2	--
24...	.04	.92	.96	2.5	.02	5.4	--	--	--
MAR									
06...	--	--	--	--	--	--	12	.68	--
23...	--	--	--	--	.08	--	--	--	--
29...	--	--	--	--	--	--	91	15	73
30...	--	--	--	--	--	--	--	--	--
APR									
24...	.03	1.9	1.9	2.2	.08	11	--	--	--
MAY									
06...	--	--	--	--	--	--	90	11	86
24...	--	--	--	--	--	--	200	66	88
29...	.11	.78	.89	1.1	.12	--	--	--	--
JUN									
25...	--	--	--	--	--	--	317	290	--
29...	.11	.89	1.0	1.6	.07	--	--	--	--
JUL									
06...	--	--	--	--	--	--	13	80	34
20...	.02	.76	.78	1.2	.08	6.9	--	--	--
26...	--	--	--	--	--	--	30	9.3	80
AUG									
23...	.00	.62	.62	1.3	.03	--	--	--	--
SEP									
02...	--	--	--	--	--	--	30	9.8	80
15...	.00	.43	.43	1.1	.04	--	--	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	SUS-PENDED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	SUS-PENDED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	TOTAL BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
NOV 22...	1030	390	370	20	2	1	1	10	10	0	420	10
JAN 24...	1200	210	210	0	1	0	1	0	0	10	340	<10
APR 24...	1615	18000	18000	0	36	30	6	0	0	0	220	10
MAY 29...	1215	--	--	--	--	--	--	--	--	--	360	--
JUN 29...	1330	--	--	--	--	--	--	--	--	--	260	--
JUL 26...	1330	480	480	0	3	0	4	0	0	0	290	<10
AUG 23...	1240	--	--	--	--	--	--	--	--	--	370	--
SEP 15...	1100	--	--	--	--	--	--	--	--	--	360	--

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)
NOV 22...	9	1	20	10	10	10	8	2	430	50	<100	<99
JAN 24...	<8	2	0	0	0	10	8	2	180	0	<100	<96
APR 24...	8	2	60	60	0	30	25	5	24000	30	<100	<100
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 26...	<9	1	10	10	0	10	1	9	580	10	<100	<99
AUG 23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	SUS-PENDED LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	SUS-PENDED MOLYB-DENUM (MO) (UG/L)
NOV 22...	1	40	0	40	30	10	20	.0	.0	.0	10	1
JAN 24...	4	40	0	40	20	10	10	.0	.0	.0	5	0
APR 24...	0	80	50	30	540	540	0	.0	.0	.0	7	0
MAY 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 29...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 26...	1	30	0	30	50	30	20	.0	.0	.0	5	0
AUG 23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	SUS-PENDED NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV 22...	9	[illegible]	[illegible]	1	0	0	5	[illegible]	10	0	10
JAN 24...	5	[illegible]	[illegible]	6	5	1	4	[illegible]	30	20	10
APR 24...	4	[illegible]	[illegible]	6	1	0	1	[illegible]	100	100	0
MAY 29...	--	--	--	--	--	--	--	--	--	--	--
JUN 29...	--	--	--	--	--	--	--	--	--	--	--
JUL 26...	[illegible]	[illegible]	[illegible]	1	0	0	0	[illegible]	30	10	20
AUG 23...	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENUED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
MAY 29...	1215	62	6.6	9.4	8.5	7.5	6.9	.06	15

DATE	TIME	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-UANE IN BUTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)
SEP 15...	1100	.0	0	.00	.00	.0	.0	0	.00	.0	.00	.0

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)
SEP 15...	.00	.0	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
SEP 15...	.00	.0	.00	.00	.00	.00	0	0	.00	.03	.00	.00

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAR 29...	1400	61	6.5	20	0	0	2	14
MAY 06...	1500	47	11.5	10	0	1	4	32
JUL 26...	1500	98	23.5	25	0	0	6	26

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAR 29...	39	58	78	89	95	97	100
MAY 06...	52	70	88	97	99	100	--
JUL 26...	44	64	85	96	99	100	--

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY

LOCATION.--Lat 41°56'43", long 109°41'04", in NE¼SW¼NW¼ sec.29, T.23 N., R.108 W., Sweetwater County, Hydrologic Unit 14040104, on left bank 0.2 mi (0.3 km) upstream from Gasson Bridge and 14.5 mi (23.3 km) southwest of Eden.

DRAINAGE AREA.--1,720 mi² (4,450 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,350 ft (1,935 m), from topographic map.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres (78.1 km²) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,130 ft³/s (32.0 m³/s) July 31, 1976, gage height, 8.15 ft (2.484 m); minimum daily, 17 ft³/s (0.48 m³/s) Feb. 23, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,130 ft³/s (32.0 m³/s) July 31, gage height, 8.15 ft (2.484 m); minimum daily, 17 ft³/s (0.48 m³/s) Feb. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	78	52	50	25	22	62	63	66	111	366	89
2	73	74	55	48	24	20	73	58	66	117	126	89
3	71	73	57	46	22	19	96	58	68	119	167	83
4	70	70	60	44	22	19	111	58	68	111	130	78
5	68	66	64	43	21	18	115	58	71	117	105	73
6	70	65	67	42	21	18	167	60	83	126	92	74
7	71	62	69	41	22	19	204	60	87	124	83	83
8	76	62	70	39	23	20	155	57	90	107	80	89
9	74	58	72	37	23	22	238	54	94	105	78	80
10	73	52	70	36	22	24	230	52	92	105	81	83
11	73	52	68	35	23	25	214	51	90	98	74	81
12	71	46	71	33	22	24	263	50	107	100	78	81
13	74	56	68	32	21	24	351	48	119	104	81	80
14	76	52	68	33	22	26	285	48	146	111	78	80
15	74	56	65	34	23	29	210	56	143	104	81	80
16	74	57	62	35	22	32	172	62	126	100	85	83
17	73	57	60	33	21	37	148	62	109	96	87	83
18	70	60	58	32	23	42	121	60	141	96	89	78
19	70	51	55	30	22	45	105	54	134	98	87	76
20	68	51	53	29	21	44	94	52	121	104	87	76
21	70	48	51	29	19	42	86	56	139	109	87	76
22	68	46	51	28	18	46	94	65	164	107	81	76
23	66	45	53	28	17	50	100	78	202	105	83	76
24	65	46	55	27	18	55	109	85	257	102	85	73
25	65	46	58	28	20	61	104	96	274	98	81	71
26	68	45	62	32	21	61	90	87	240	100	83	74
27	76	43	60	30	23	59	92	81	194	102	87	70
28	73	45	58	27	24	57	90	71	150	94	92	70
29	70	47	55	24	25	55	81	68	126	100	92	70
30	71	50	53	22	---	56	71	65	111	104	90	68
31	78	---	51	23	---	58	---	66	---	174	90	---
TOTAL	2212	1659	1871	1050	630	1129	4331	1939	3878	3348	3086	2343
MEAN	71.4	55.3	60.4	33.9	21.7	36.4	144	62.5	129	108	99.5	78.1
MAX	78	78	72	50	25	61	351	96	274	174	366	89
MIN	65	43	51	22	17	18	62	48	66	94	74	68
AC-FT	4390	3290	3710	2080	1250	2240	8590	3850	7690	6640	6120	4650

CAL YR 1975 TOTAL 29783 MEAN 81.6 MAX 381 MIN 27 AC-FT 59070
WTR YR 1976 TOTAL 27476 MEAN 75.1 MAX 366 MIN 17 AC-FT 54500

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
OCT												
06...	1410	73	6000	--	23.5	47	--	--	--	--	--	--
NOV												
05...	1110	68	2900	--	5.0	6	--	--	--	--	--	--
22...	1200	A46	4000	--	.0	--	--	--	1300	1000	320	130
DEC												
03...	1250	A57	3000	--	.0	7	--	--	--	--	--	--
22...	1140	A51	4500	--	.0	--	--	--	1400	1100	290	170
JAN												
22...	0915	A28	1900	--	.0	3	--	--	--	--	--	--
24...	1300	A27	2200	--	.5	--	--	--	75	0	19	6.9
29...	1000	A24	4200	--	.0	--	--	--	--	--	--	--
MAR												
04...	1100	A19	3000	--	.0	5	--	--	--	--	--	--
23...	1500	A50	4000	--	7.0	--	--	--	--	--	--	--
APR												
02...	1415	65	2080	--	9.0	25	--	--	--	--	--	--
24...	1800	94	3000	--	12.5	--	--	--	700	460	150	77
MAY												
06...	1215	60	3400	--	10.0	20	--	--	--	--	--	--
24...	1415	83	3100	--	18.5	35	--	--	--	--	--	--
29...	1315	70	3400	--	20.0	--	--	--	930	650	192	109
JUN												
25...	0830	277	1200	--	11.5	80	--	--	--	--	--	--
26...	0900	249	1230	8.0	11.0	125	10.8	1.2	--	--	--	--
29...	1430	126	2100	--	22.0	--	--	--	660	520	140	74
JUL												
06...	1405	126	2100	--	22.5	6	--	--	--	--	--	--
09...	1630	105	2440	8.5	25.5	1	8.2	1.0	--	--	--	--
23...	1200	107	2200	--	19.5	3	--	--	--	--	--	--
26...	1500	104	2800	--	24.0	--	--	--	850	630	180	95
26...	1700	195	2600	--	24.5	7	--	--	--	--	--	--
AUG												
23...	1400	83	3000	--	18.5	--	--	--	940	700	210	100
SEP												
02...	1235	87	2300	--	16.0	4	--	--	--	--	--	--
15...	1200	80	3500	--	14.5	--	--	--	1100	850	230	130

A Daily mean discharge.

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
NOV											
05...	--	--	--	--	--	--	--	--	--	--	--
22...	500	6.7	4.2	360	0	295	2200	63	1.4	13	--
DEC											
03...	--	--	--	--	--	--	--	--	--	--	--
22...	540	6.2	3.5	360	0	295	2200	53	1.4	15	--
JAN											
22...	--	--	--	--	--	--	--	--	--	--	--
24...	440	23	1.9	210	0	172	690	190	1.7	8.1	--
29...	--	--	--	--	--	--	--	--	--	--	--
MAR											
04...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	--	--	--	--	--	--	--	--	--	--	--
24...	380	6.3	3.7	290	0	238	1200	38	1.3	12	--
MAY											
06...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
29...	510	7.3	4.5	330	3	276	1700	61	1.5	12	3180
JUN											
25...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
29...	280	4.7	2.8	170	0	139	1000	30	1.5	11	--
JUL											
06...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
26...	300	4.5	5.0	270	0	221	1000	30	1.4	10	--
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	340	4.8	3.0	290	0	238	1200	40	1.2	11	--
SEP											
02...	--	--	--	--	--	--	--	--	--	--	--
15...	480	6.3	4.4	300	0	246	1600	4.8	1.0	9.0	--

GREEN RIVER BASIN

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT											
06...	--	--	--	--	--	--	--	--	24	4.7	--
NOV											
05...	--	--	--	--	--	--	--	--	34	6.2	--
22...	3470	4.72	431	--	.70	.03	--	--	--	--	--
DEC											
03...	--	--	--	--	--	--	--	--	37	5.7	--
22...	3460	4.71	476	--	.63	.05	--	--	--	--	--
JAN											
22...	--	--	--	--	--	--	--	--	28	2.1	--
24...	1440	1.96	105	--	.23	.26	--	--	--	--	--
29...	--	--	--	--	--	--	660	--	--	--	--
MAR											
04...	--	--	--	--	--	--	--	--	43	2.2	--
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	--	--	--	--	--	--	--	--	114	32	58
24...	2010	2.73	510	--	.20	.33	--	--	--	--	--
MAY											
06...	--	--	--	--	--	--	--	--	72	12	88
24...	--	--	--	--	--	--	--	--	24	68	91
29...	2720	3.70	514	180	.23	.18	--	--	--	--	--
JUN											
25...	--	--	--	--	--	--	--	4.4	34	295	72
26...	--	--	--	--	--	--	6800	--	--	--	--
29...	1670	2.27	568	--	.32	.09	--	--	--	--	--
JUL											
06...	--	--	--	--	--	--	--	--	14	18	77
09...	--	--	--	--	--	--	2200	.2	--	--	--
23...	--	--	--	--	--	--	--	--	17	25	58
26...	1970	2.68	553	--	.27	.05	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	10	14	71
AUG											
23...	2190	2.98	491	--	1.2	.04	--	--	--	--	--
SEP											
02...	--	--	--	--	--	--	--	--	7	18	65
15...	2560	3.48	553	--	.38	.01	--	--	--	--	--

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ANTI-MONY (SB) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
NOV									
22...	1200	30	1	2	0	1	10	[illegible]	30

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV									
22...	0	70	60	.0	12	4	4	2.	10

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
MAY									
29...	1215	99	12	9.7	12	7.9	9.6	.0	11

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
MAY							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JUL							
[illegible]	1700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
MAY						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100
JUL						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE TIME	JAN 29,76 1000	JUN 26,76 0900	JUL 9,76 1630
TOTAL CELLS/ML	660	6000	2200
DIVERSITY: DIVISION	0.1	1.4	1.0
.CLASS	0.1	1.5	1.0
..ORDER	0.3	1.7	1.1
...FAMILY	2.6	2.7	2.7
....GENUS	2.8	2.8	2.8

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...COELASTRACEAE						
....COELASTRUM	--	-	--	-	520#	24
...OOCYSTACEAE						
....CHODATELLA	--	-	--	-	32	2
....OOCYSTIS	--	-	--	-	550#	26
...SCENEDESMACEAE						
....SCENEDESMUS	--	-	280	5	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	8	2	--	-	32	2
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	15	3	71	2	--	-
....MELOSIRA	--	-	140	3	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	170#	26	--	-	--	-
....COCCONEIS	--	-	71	2	160	8
....RHOICOSPHENIA	23	4	140	3	--	-
...CYMBELLACEAE						
....CYMBELLA	39	6	140	3	64	3
...DIATOMACEAE						
....DIATOMA	--	-	--	-	260	12
...FRAGILARIACEAE						
....FRAGILARIA	39	6	360	6	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	70	11	280	5	390#	18
...NAVICULACEAE						
....NAVICULA	190#	30	570	10	97	5
....PINNULARIA	--	-	--	-	32	2
...NITZSCHIACEAE						
....NITZSCHIA	78	12	570	10	64	3
...SURIRELLACEAE						
....SURIRELLA	23	4	280	5	--	-
.CHRYSOPHYCEAE						
..CHRYSOMONADALES						
...OCHROMONADACEAE						
....OCHROMONAS	--	-	140	3	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.MYXOPHYCEAE						
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....LYNGBYA	--	-	2900#	48	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOMONADACEAE						
....CRYPTOMONAS	--	-	160	3	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

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                    JAN. 29, 1976
                     1000 HOURS

             IDENTIFICATION OF PERIPHYTON

  _ORGANISM__NAME_______________   _COMMON__NAME_______

  CHRYSOPHYTA
  .BACILLARIOPHYCEAE                DIATOMS
  ..PENNALES                        PENNATE
  ...ACHNANTHACEAE
O ....ACHNANTHES
O ....COCCONEIS
O ....RHOICOSPHENIA
  ...DIATOMACEAE
O ....DIATOMA
  ...GOMPHONEMATACEAE
E ....GOMPHONEMA
  ...NAVICULACEAE                   NAVICULOID
O ....AMPHIPRORA
O ....NAVICULA
  ...NITZSCHIACEAE
O ....NITZSCHIA
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                    JUNE 26, 1976
                     0900 HOURS

             IDENTIFICATION OF PERIPHYTON

  _ORGANISM__NAME_______________   _COMMON__NAME_______

  CHLOROPHYTA                       GREEN ALGAE
  .CHLOROPHYCEAE
  ..CLADOPHORALES
  ...CLADOPHORACEAE
E ....CLADOPHORA
  CHRYSOPHYTA
  .BACILLARIOPHYCEAE                DIATOMS
  ..CENTRALES                       CENTRIC
  ...COSCINODISCACEAE
O ....MELOSIRA
  ..PENNALES                        PENNATE
  ...ACHNANTHACEAE
O ....ACHNANTHES
E ....COCCONEIS
E ....RHOICOSPHENIA
  ...CYMBELLACEAE
O ....CYMBELLA
O ....RHOPALODIA
  ...DIATOMACEAE
O ....DIATOMA
  ...FRAGILARIACEAE
O ....FRAGILARIA
O ....SYNEDRA
  ...GOMPHONEMATACEAE
O ....GOMPHONEMA
  ...NAVICULACEAE                   NAVICULOID
O ....AMPHIPRORA
O ....GYROSIGMA
O ....NAVICULA
O ....PINNULARIA
  ...NITZSCHIACEAE
O ....NITZSCHIA
  ...SURIRELLACEAE
O ....SURIRELLA
  CYANOPHYTA                        BLUE-GREEN ALGAE
  .MYXOPHYCEAE
  ..OSCILLATORIALES                 FILAMENTOUS
  ...OSCILLATORIACEAE
O ....OSCILLATORIA

NOTE: E = ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
      O = OBSERVED ORGANISM; NOT ACTUALLY COUNTED
      ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE
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09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JULY 9, 1976
1630 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
O	....ANKISTRODESMUS	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	..ULOTRICHALES	
	...MICROSPORACEAE	
O	....MICROSPORA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
E	....COCCONEIS	
E	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....AMPHIPRORA	
O	....ANOMOEONEIS	
O	....GYROSIGMA	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216200 EAST OTTERSON WASH NEAR GREEN RIVER, WY

LOCATION.--Lat 41°47'04", long 109°44'03", in SE¼SW¼SE¼ sec.23, T.21 N., R.109 W., Sweetwater County, Hydrologic Unit 14040103, 0.1 mi (0.2 km) downstream from dirt road, 0.9 mi (1.4 km) upstream from mouth, and 21 mi (34 km) northeast of Green River.

DRAINAGE AREA.--[illegible] mi² ([illegible] km²).

PERIOD OF RECORD.--August 1976.

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
AUG			
06...	[illegible]	[illegible]	[illegible]

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY

LOCATION.--Lat 41°45'52", long 109°44'05", in SW¼SE¼ sec.26, T.21 N., R.109 W., Sweetwater County, Hydrologic Unit 14040103, at Big Island bridge, 6.3 mi (10.1 km) downstream from Dry Creek, 9.5 mi (15.3 km) downstream from Big Sandy River, and 21 mi (34 km) northwest of town of Green River.

DRAINAGE AREA.--7,300 mi² (18,900 km²), approximately.

PERIOD OF RECORD.--Water years 1966 to current year.

REMARKS.--Water discharge computed by adding the discharge of Big Sandy River at Gasson Bridge, near Eden to that of Green River below Fontenelle Reservoir.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV 22...	1315	1010	660	--	1.0	1	11.4	--	<1	240	99
DEC 22...	1300	1170	690	--	.5	2	11.2	--	<1	230	77
JAN 24...	1400	1040	630	--	.0	2	11.6	--	<1	240	79
FEB 20...	1630	1060	540	--	.0	2	10.5	--	<1	240	84
MAR 23...	1630	1610	690	--	4.5	120	10.6	--	<1	220	72
APR 24...	1915	2090	650	--	9.0	20	10.2	--	82	200	52
MAY 29...	1430	7710	415	--	14.0	5	8.9	--	84	170	32
JUN 26...	0700	2370	390	8.5	11.0	20	8.2	1.4	--	--	--
29...	1600	1890	440	--	20.5	1	9.6	--	88	170	47
JUL 09...	1430	2400	445	8.5	21.0	2	8.1	1.3	--	--	--
26...	1630	2940	430	--	20.0	1	8.3	--	89	160	29
AUG 23...	1500	1680	540	--	19.0	1	8.8	--	82	180	49
SEP 20...	1100	976	650	--	13.0	1	8.8	--	810	220	81

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
NOV 22...	59	22	50	1.4	1.6	160	6	141	190	8.8	.4
DEC 22...	60	21	43	1.2	1.4	180	3	153	170	8.5	.4
JAN 24...	62	21	37	1.0	2.6	190	3	161	160	5.2	.4
FEB 20...	61	21	40	1.1	2.8	190	0	156	160	7.7	.4
MAR 23...	56	19	67	2.0	2.3	180	0	148	200	12	.3
APR 24...	54	17	41	1.2	2.1	180	0	148	140	8.7	.4
MAY 29...	44	14	19	.6	1.6	150	9	138	63	5.2	.3
JUN 26...	--	--	--	--	--	--	--	--	--	--	--
29...	41	16	30	1.0	1.4	150	0	123	110	5.6	.3
JUL 09...	--	--	--	--	--	--	--	--	--	--	--
26...	38	15	24	.8	1.9	160	0	131	74	5.6	.3
AUG 23...	46	17	34	1.1	6.3	160	0	131	120	5.5	.3
SEP 20...	54	22	48	1.4	1.6	170	0	139	180	6.3	.4

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV											
22...	4.9	425	.58	1160	.07	.00	--	--	--	--	--
DEC											
22...	8.6	402	.55	1270	.09	.00	--	--	--	--	--
JAN											
24...	8.0	389	.53	1090	.09	.01	--	--	--	--	--
FEB											
20...	7.1	395	.54	1150	.05	.01	--	--	14	41	--
MAR											
23...	7.0	457	.62	1990	.09	.27	--	--	366	1590	94
APR											
24...	6.7	360	.49	2030	.07	.06	--	--	57	322	86
MAY											
29...	6.6	236	.32	4910	.16	.03	--	--	70	1460	39
JUN											
26...	--	--	--	--	--	--	2200	--	--	--	--
29...	5.8	281	.38	1430	.05	.01	--	--	26	133	68
JUL											
09...	--	--	--	--	--	--	590	1.8	--	--	--
26...	4.4	241	.33	1910	.07	.02	--	--	13	103	57
AUG											
23...	3.0	310	.42	1410	.27	.01	--	--	13	59	65
SEP											
20...	12	404	.55	1060	.05	.01	--	--	4	11	52

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUN 26,76	JUL 9,76
TIME	0700	1430
TOTAL CELLS/ML	2200	590
DIVERSITY: DIVISION	0.1	0.5
.CLASS	.0.1	0.5
..ORDER	0.5	0.6
...FAMILY	3.1	2.9
....GENUS	3.4	3.3

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS	23	2	9	2
....CHODATELLA	--	-	18	4
....OOCYSTIS	*	0	--	-
...SCENEDESMACEAE				
....SCENEDESMUS	*	0	36	7
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	160	8	9	2
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	140	7	--	-
....COCCONEIS	45	3	63	11
....RHOICOSPHENIA	68	4	54	10
...CYMBELLACEAE				
....AMPHORA	91	5	--	-
....CYMBELLA	140	7	27	5
...DIATOMACEAE				
....DIATOMA	200	10	81	14
...FRAGILARIACEAE				
....ASTERIONELLA	*	0	9	2
....FRAGILARIA	200	10	--	-
....SYNEDRA	*	0	9	2
...GOMPHONEMATACEAE				
....GOMPHONEMA	290	14	140#	25
...NAVICULACEAE				
....CALONEIS	*	0	--	-
....NAVICULA	450#	21	90#	16
....PINNULARIA	--	-	9	2
...NITZSCHIACEAE				
....NITZSCHIA	270	13	36	7
...SURIRELLACEAE				
....SURIRELLA	91	5	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

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                                JUNE 26, 1976
                                 0700 HOURS

                          IDENTIFICATION OF PERIPHYTON

  _ORGANISM__NAME_______________     _COMMON__NAME_______

  CHLOROPHYTA                         GREEN ALGAE
  .CHLOROPHYCEAE
  ..CLADOPHORALES
  ...CLADOPHORACEAE
E ....CLADOPHORA
  ..ZYGNEMATALES
  ...DESMIDIACEAE                     PLACODERM DESMIDS
O ....CLOSTERIUM
  CHRYSOPHYTA
  .BACILLARIOPHYCEAE                  DIATOMS
  ..CENTRALES                         CENTRIC
  ...COSCINODISCACEAE
O ....MELOSIRA
  ..PENNALES                          PENNATE
  ...ACHNANTHACEAE
O ....ACHNANTHES
E ....COCCONEIS
O ....RHOICOSPHENIA
  ...CYMBELLACEAE
O ....CYMBELLA
O ....EPITHEMIA
O ....RHOPALODIA
  ...DIATOMACEAE
E ....DIATOMA
  ...FRAGILARIACEAE
O ....FRAGILARIA
O ....SYNEDRA
  ...GOMPHONEMATACEAE
E ....GOMPHONEMA
  ...NAVICULACEAE                     NAVICULOID
O ....CALONEIS
O ....NAVICULA
  ...NITZSCHIACEAE
O ....CYLINDROTHECA
O ....DENTICULA
O ....NITZSCHIA
  ...SURIRELLACEAE
O ....SURIRELLA
  CYANOPHYTA                          BLUE-GREEN ALGAE
  .MYXOPHYCEAE
  ..CHROOCOCCALES                     COCCOID
  ...CHROOCOCCACEAE
O ....AGMENELLUM
  ..OSCILLATORIALES                   FILAMENTOUS
  ...OSCILLATORIACEAE
O ....OSCILLATORIA

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED

      O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
      ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE
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09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JULY 9, 1976
1430 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
O	....ANKISTRODESMUS	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
O	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
E	....ACHNANTHES	
E	....COCCONEIS	
E	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
O	....EPITHEMIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..CHROOCOCCALES	COCCOID
	...CHROOCOCCACEAE	
O	....AGMENELLUM	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216525 (REVISED) SEPARATION CREEK AT UPPER STATION, NEAR RINER, WY

LOCATION.--Lat 41°37'52", long 107°32'27", in NW¼SE¼SW¼ sec.9, T.19 N., R.90 W., Carbon County, Hydrologic Unit 14040200, at abandoned bridge 7.2 mi (11.6 km) south of Riner.

DRAINAGE AREA.--41.8 mi² (108.3 km²).

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT											
31...	0830	.40	--	--	2.0	--	--	530	240	78	82
NOV											
17...	1315	.52	2000	8.2	12.0	--	--	780	330	130	110
JAN											
20...	1400	E.20	1700	--	.0	--	--	670	230	120	91
30...	1010	.20	1600	--	.0	--	--	--	--	--	--
FEB											
10...	1200	E.20	1350	7.8	.0	20	--	460	170	77	65
MAR											
10...	1400	E.32	1850	8.3	1.0	45	10.4	770	420	110	120
20...	1100	E2.0	610	--	.0	50	--	--	--	--	--
29...	1520	E4.0	1350	8.1	.0	--	--	570	290	90	84
APR											
02...	1530	15	630	8.0	3.0	550	--	240	110	39	35
21...	0800	6.1	1380	--	4.0	45	--	--	--	--	--
MAY											
11...	1615	12	740	--	13.0	90	--	--	--	--	--
13...	0800	12	760	8.2	8.0	--	8.4	340	110	64	44
JUN											
07...	1245	E3.5	650	--	24.0	50	--	--	--	--	--
JUL											
01...	1440	1.7	1060	8.4	21.0	20	8.4	490	190	83	68
12...	1145	.10	1250	--	22.0	6	--	--	--	--	--
20...	1730	--	--	--	--	--	--	--	--	--	--
AUG											
17...	1430	--	--	--	--	--	--	--	--	--	--

E Estimate.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT										
31...	170	3.2	3.3	350	0	287	570	18	.6	7.3
NOV										
17...	200	3.1	5.5	540	0	443	750	22	.4	8.8
JAN										
20...	190	3.2	2.9	542	--	445	590	17	.4	9.5
30...	--	--	--	--	--	--	--	--	--	--
FEB										
10...	140	2.8	8.8	355	0	291	470	16	.3	6.3
MAR										
10...	180	2.8	7.8	423	0	347	790	26	.4	8.7
20...	--	--	--	--	--	--	--	--	--	--
29...	110	2.0	7.2	347	0	285	500	16	.3	8.3
APR										
02...	43	1.2	5.9	161	0	132	200	6.9	.1	4.5
21...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	--	--	--	--	--	--	--
13...	40	.9	3.8	280	0	230	200	7.5	.3	8.6
JUN										
07...	--	--	--	--	--	--	--	--	--	--
JUL										
01...	80	1.6	4.1	360	0	295	320	10	.4	5.2
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	--	--	--	--	--	--	--	--	--	--

09216525 SEPARATION CREEK AT UPPER STATION, NEAR RINER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)
OCT										
31...	--	1100	1.50	1.19	--	.02	--	--	--	--
NOV										
17...	--	1490	2.03	2.09	--	--	--	.02	--	--
JAN										
20...	--	1290	1.75	.70	--	--	--	.20	--	--
30...	--	--	--	--	--	--	--	--	--	--
FEB										
10...	--	959	1.30	.52	--	--	.27	--	.00	--
MAR										
10...	--	1450	1.97	1.25	--	--	.12	.11	.03	.04
20...	--	--	--	--	--	--	--	--	--	--
29...	--	907	1.34	10.7	--	--	--	.00	--	.00
APR										
02...	490	414	.56	16.0	2100	--	.02	.02	.00	.00
21...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	--	--	--	--	--	--	--
13...	--	507	.69	16.7	--	--	--	.06	--	.00
JUN										
07...	--	--	--	--	--	--	--	--	--	--
JUL										
01...	--	748	1.02	3.43	--	--	--	.01	--	.01
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT										
31...	--	--	--	.02	--	--	--	--	--	--
NOV										
17...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	81	--
FEB										
10...	1.3	1.3	1.6	.15	--	--	--	--	--	23
MAR										
10...	.46	.49	.61	.15	.04	--	--	--	--	5.2
20...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	.00	.00	.01	--	9.7
APR										
02...	2.2	2.2	2.2	4.4	.04	.01	.03	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
MAY										
11...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	.00	.01	.03	--	400	3.6
JUN										
07...	--	--	--	--	--	--	--	--	--	--
JUL										
01...	--	--	--	--	.06	.03	.09	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	.3
AUG										
17...	--	--	--	--	--	--	--	--	--	.2

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
NOV											
17...	1315	--	--	--	--	--	--	160	--	--	--
JAN											
20...	1400	--	--	--	--	--	--	110	--	--	--
FEB											
10...	1200	--	--	--	--	--	--	130	--	--	--
MAR											
10...	1400	--	--	--	--	--	--	200	--	--	--
29...	1520	--	--	--	--	--	--	130	--	--	--
APR											
02...	1530	23000	0	34	0	0	0	90	<10	0	40
MAY											
13...	0000	--	--	--	--	--	--	90	--	--	--
JUL											
01...	1440	--	--	--	--	--	--	140	--	--	--

09216525 SEPARATION CREEK AT UPPER STATION, NEAR RINER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
NOV											
17...	--	--	--	--	30	--	--	--	--	--	--
JAN											
20...	--	--	--	--	30	--	--	--	--	--	--
FEB											
10...	--	--	--	--	160	--	--	--	--	--	--
MAR											
10...	--	--	--	--	70	--	--	--	--	--	--
29...	--	--	--	--	30	--	--	--	--	--	--
APR											
02...	0	50	1	42000	80	<100	0	40	20	1400	70
MAY											
13...	--	--	--	--	40	--	--	--	--	--	--
JUL											
01...	--	--	--	--	20	--	--	--	--	--	--

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
JAN											
20...	--	--	--	--	--	--	--	--	--	--	--
FEB											
10...	--	--	--	--	--	--	--	--	--	--	--
MAR											
10...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	.0	.0	2	1	50	0	2	0	1.3	200	0
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
01...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
APR									
02...	1530	<7.2	160	8.5	77	6.8	63	.09	1.9

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV											
17...	1315	12.0	.52	242	.34	--	--	--	--	--	--
FEB											
10...	1200	.0	E.20	32	.02	--	--	--	--	--	--
MAR											
10...	1400	1.0	E.32	147	.13	--	--	--	--	--	93
20...	1100	.0	E2.0	75	.40	--	--	--	--	--	94
29...	1520	.0	E4.0	546	5.9	--	--	--	--	--	92
APR											
02...	1530	3.0	14	2460	98	32	52	89	95	100	--
21...	0800	4.0	6.1	1470	24	--	--	--	--	--	18
MAY											
11...	1615	13.0	12	346	11	--	--	--	--	--	82
22...	--	--	E15	3370	136	--	--	--	--	--	58
JUN											
07...	1245	24.0	E3.5	148	1.4	--	--	--	--	--	81
JUL											
01...	1440	21.0	1.7	105	.48	--	--	--	--	--	86
12...	1145	22.0	.10	49	.01	--	--	--	--	--	78

E Estimate.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM
APR									
02...	1530	14	3.0	--	19	38	95	99	100
21...	0800	6.1	4.0	22	44	49	88	99	100

09216525 SEPARATION CREEK AT UPPER STATION, NEAR RINER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

JAN. 30, 1976
1010 HOURS

IDENTIFICATION OF PHYTOPLANKTON

81 CELLS/ML

	_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		10	12
	....RHOICOSPHENIA		5	6
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		5	6
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		29	35
	....PINNULARIA		5	6
	...NITZSCHIACEAE			
D	....NITZSCHIA		29	35
		TOTALS	81	100

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
FAMILY 1.739
GENERA 2.145

MAY 13, 1976
0800 HOURS

IDENTIFICATION OF PHYTOPLANKTON

400 CELLS/ML

	_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...GOMPHONEMATACEAE			
D	....GOMPHONEMA		72	18
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		90	23
	...NITZSCHIACEAE			
D	....NITZSCHIA		90	23
	...SURIRELLACEAE			
D	....SURIRELLA		140	36
		TOTALS	400	100

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
FAMILY 1.949
GENERA 1.949

09216525 SEPARATION CREEK AT UPPER STATION, NEAR RINER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JAN. 20, 1976
1400 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
O	....ANKISTRODESMUS	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
E	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

JAN. 30, 1976
1010 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
E	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

BENTHIC INVERTEBRATES ANALYSES

JAN. 30, 1976
1010 HOURS

IDENTIFICATION OF BENTHIC INVERTEBRATES

- - - NO ORGANISMS REPORTED - - -

NOTE: ANALYSIS METHOD: SIEVE, DISSECTING MICROSCOPE

09216527 SEPARATION CREEK NEAR RINER, WY

LOCATION.--Lat 41°39'38", long 107°33'28", in NE¼SE¼SW¼ sec.32, T.20 N., R.90 W., Sweetwater County, Hydrologic Unit 14040200, on left bank 0.1 mi (0.2 km) downstream from unnamed tributary, 1.5 mi (2.4 km) upstream from wooden bridge, 5.0 mi (8.0 km) south of Riner, and 6.5 mi (10.5 km) south of Interstate Highway 80.

DRAINAGE AREA.--55.3 mi² (143.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,810 ft (2,076 m), from topographic map.

REMARKS.--Records good except those for winter months, which are poor. No diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39 ft³/s (1.10 m³/s) Apr. 6, gage height, 4.69 ft (1.430 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	1.8	6.1	5.8	8.5	.98	0	
2					0	1.2	21	6.2	7.5	1.2	.05	
3					0	.80	16	6.2	6.9	.95	.01	
4					0	.50	19	6.5	6.3	.92	0	
5					0	.30	23	6.7	6.0	.75	0	
6					0	.40	25	6.8	5.3	.58	0	
7					0	.55	10	7.6	5.0	.45	0	
8					0	.80	12	7.5	4.5	.32	0	
9					1.8	1.2	15	8.2	3.9	.19	0	
10					.90	1.7	12	9.1	3.8	.08	0	
11					0	3.1	17	9.2	3.4	.01	0	
12					0	4.4	22	10	3.0	0	0	
13					0	6.4	22	11	3.6	0	0	
14					.92	9.4	18	11	6.3	0	0	
15					.60	14	15	11	10	0	0	
16					0	20	11	12	10	0	0	
17					0	21	7.9	12	9.1	0	0	
18					0	12	7.5	11	7.8	0	0	
19					0	7.0	5.5	10	8.2	0	0	
20					0	12	5.3	11	7.1	0	0	
21					0	7.0	6.2	12	5.0	0	0	
22					0	5.2	6.1	14	3.4	0	0	
23					0	7.8	8.5	16	3.1	0	0	
24					0	8.5	8.3	14	3.5	0	0	
25					0	14	7.9	12	3.1	0	0	
26					0	9.3	7.9	11	2.6	0	0	
27					.50	6.7	7.3	10	2.0	.93	0	
28					1.5	4.1	7.0	9.9	1.5	.04	0	
29					2.2	4.6	5.9	9.5	1.1	0	0	
30					---	4.0	6.2	9.5	.92	0	0	
31		---			---	3.2	---	9.1	---	0	0	---
TOTAL	0	0	0	0	8.42	192.95	361.6	305.8	152.42	7.40	.06	0
MEAN	0	0	0	0	.29	6.22	12.1	9.86	5.08	.24	.002	0
MAX	0	0	0	0	2.2	21	25	16	10	1.2	.05	0
MIN	0	0	0	0	0	.30	5.3	5.8	.92	0	0	0
AC-FT	0	0	0	0	17	383	717	607	302	15	.1	0

WTR YR 1976 TOTAL 1028.65 MEAN 2.81 MAX 25 MIN 0 AC-FT 2040

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976.

INSTRUMENTATION.--Automatic pumping sediment sampler since April 1976.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 11,900 mg/L July 27; minimum daily mean, no flow for many days.
SEDIMENT LOADS: Maximum daily, 70 tons (64 tonnes) July 27; minimum daily, 0 tons on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
MAR											
01...	1715	A1.8	450	8.0	.0	380	10.2	--	150	53	29
09...	1745	A1.2	2000	--	.5	20	--	--	--	--	--
10...	1145	A1.7	1580	8.3	6.0	25	9.1	--	600	310	96
18...	1515	A12	220	8.1	.0	--	10.2	--	--	--	--
18...	1630	A12	240	8.1	.0	760	9.6	5.1	95	3	24
19...	0945	A7.0	300	--	.0	--	--	--	--	--	--
19...	1615	A7.0	510	--	.0	--	--	--	--	--	--
20...	1210	A12	600	--	.0	170	--	--	--	--	--
24...	0900	8.1	990	7.8	.5	62	10.2	--	350	160	61
29...	1730	8.2	1400	8.2	.0	--	--	--	610	330	96
APR											
02...	1330	26	525	8.0	1.5	360	--	--	210	90	33
06...	0850	35	790	--	.0	350	--	--	--	--	--
07...	1405	6.5	1110	--	3.0	--	--	--	--	--	--
21...	0900	6.0	1390	8.2	5.0	55	--	--	620	310	95
MAY											
11...	1500	9.5	975	--	13.0	100	--	--	--	--	--
13...	1030	10	780	8.4	8.5	--	9.0	--	360	130	64
13...	1500	11	--	--	15.0	70	--	--	--	--	--
25...	1220	12	740	--	14.0	45	--	--	--	--	--
30...	1220	9.2	670	8.2	14.5	--	8.1	3.7	--	--	--
JUN											
07...	1045	4.9	780	--	15.0	95	--	--	--	--	--
21...	1300	5.0	810	8.3	18.0	45	7.5	2.3	350	100	60
23...	1100	3.1	1000	--	13.0	40	--	--	--	--	--
30...	1700	.89	1270	--	19.5	5	--	--	--	--	--
JUL											
01...	1615	1.0	1090	8.5	21.0	10	8.9	--	520	200	88

A Daily mean discharge.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR											
01...	20	36	1.3	6.3	124	0	102	120	5.8	.1	2.9
09...	--	--	--	--	--	--	--	--	--	--	--
10...	87	150	2.7	7.0	357	0	293	620	20	.3	7.1
18...	--	--	--	--	--	--	--	--	--	--	--
18...	8.6	15	.7	5.8	112	0	92	48	2.5	.1	2.8
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
24...	49	68	1.6	6.2	233	0	191	290	11	.2	5.5
29...	91	110	1.9	7.2	349	--	286	540	16	.2	6.9
APR											
02...	30	33	1.0	5.8	141	0	116	160	5.4	.1	4.4
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
21...	92	110	1.9	4.8	370	0	303	530	17	.2	7.4
MAY											
11...	--	--	--	--	--	--	--	--	--	--	--
13...	48	43	1.0	3.8	274	3	230	220	8.2	.3	8.0
13...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	0	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	49	46	1.1	4.1	301	0	247	220	9.1	.3	6.2
23...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
01...	72	80	1.5	4.4	384	0	315	330	11	.4	4.3

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)
MAR											
01...	--	282	.38	1.37	--	.13	.13	.04	.04	3.0	--
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	1160	1.58	5.32	--	.17	.15	.00	.04	1.0	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	163	.22	5.28	--	.53	.08	.11	.10	3.1	.13
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
24...	--	606	.82	13.3	--	.08	--	.14	--	1.2	--
29...	--	1040	1.41	23.0	--	--	.01	--	.02	--	--
APR											
02...	--	342	.47	24.0	--	.03	.06	.00	.00	2.5	--
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
21...	--	1040	1.41	16.8	--	.01	.00	.00	--	.66	--
MAY											
11...	--	--	--	--	--	--	--	--	--	--	--
13...	--	533	.72	14.4	--	--	.00	--	.00	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
25...	490	--	--	--	200	--	--	--	--	--	--
30...	--	--	--	--	--	.10	--	.07	--	.73	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	--	543	.74	7.33	--	.05	--	.06	--	.79	--
23...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
01...	--	780	1.06	2.11	--	--	.01	--	.02	--	--

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS. HYDRO-LYZABLE PHOS-PHORUS (P) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
MAR										
01...	3.0	--	3.1	.69	.19	--	--	--	460	1.6
09...	--	--	--	--	--	--	--	--	--	--
10...	1.0	--	1.2	.15	.09	--	--	--	53000	17
18...	--	--	--	--	--	--	--	--	--	--
18...	3.2	.23	3.7	1.2	.24	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
24...	1.3	--	1.4	.18	--	--	--	--	--	--
29...	--	--	--	--	--	.00	.00	.00	--	11
APR										
02...	2.5	--	2.5	1.6	.04	.00	.00	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
21...	.66	--	.67	.13	.03	.01	.03	--	--	--
MAY										
11...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	.01	.00	.00	--	540	.5
13...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
30...	.80	--	.90	.16	--	--	--	--	--	--
JUN										
07...	--	--	--	--	--	--	--	--	--	--
21...	.85	--	.90	.12	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUL										
01...	--	--	--	--	.03	.03	.09	--	--	--

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BERYL- LIUM (BE) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
MAR											
01...	1715	--	--	--	--	--	--	80	--	--	--
10...	1145	--	--	--	--	--	--	160	--	--	--
18...	1630	26000	60	26	0	10	10	80	<10	0	40
24...	0900	2600	--	2	--	10	--	50	<10	--	20
29...	1730	--	--	--	--	--	--	110	--	--	--
APR											
02...	1330	14000	0	12	0	0	0	100	<10	0	40
21...	0900	--	--	--	--	--	--	110	--	--	--
MAY											
13...	1030	--	--	--	--	--	--	90	--	--	--
JUN											
21...	1300	--	--	--	--	--	--	110	--	--	--
JUL											
01...	1615	--	--	--	--	--	--	120	--	--	--

DATE	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
MAR											
01...	--	--	--	--	120	--	--	--	--	--	--
10...	--	--	--	--	120	--	--	--	--	--	--
18...	0	60	4	37000	100	<100	2	40	10	950	10
24...	--	20	--	3400	40	<100	--	40	--	100	--
29...	--	--	--	--	20	--	--	--	--	--	--
APR											
02...	0	20	1	23000	40	<100	0	30	10	710	70
21...	--	--	--	--	30	--	--	--	--	--	--
MAY											
13...	--	--	--	--	10	--	--	--	--	--	--
JUN											
21...	--	--	--	--	20	--	--	--	--	--	--
JUL											
01...	--	--	--	--	10	--	--	--	--	--	--

DATE	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED VANA- DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
MAR											
01...	--	--	--	--	--	--	0	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
18...	.0	.0	1	0	<50	2	1	0	1.4	200	0
24...	.0	--	2	--	<50	--	0	--	--	30	--
29...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	.0	.0	2	2	50	0	1	0	1.6	100	10
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
01...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (DIRECT FLUORO- METRIC) (PC/L)
MAY									
25...	1220	<5.0	11	6.5	8.5	5.2	6.9	.10	2.0

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR									
01...	1715	.0	A1.8	328	1.6	--	--	--	97
09...	1745	.5	A1.2	140	.45	--	--	--	44
10...	1145	6.0	A1.7	32	.15	--	--	--	--
16...	1515	.0	A12	1800	58	--	--	--	99
18...	1630	.0	A12	1820	59	65	96	100	--
19...	0945	.0	A7.0	380	7.2	--	--	--	96
19...	1615	.0	A7.0	212	4.0	--	--	--	98
20...	1210	.0	A12	204	6.6	--	--	--	97
23...	1700	1.5	7.4	339	6.8	--	--	--	97
29...	1730	.0	8.2	487	11	--	--	--	95
30...	1750	1.5	7.3	496	9.8	--	--	--	95
APR									
02...	1330	1.5	26	968	68	64	91	100	--
06...	0850	.0	35	659	62	74	90	100	--
07...	1405	3.0	6.5	454	8.0	--	--	--	90
13...	1015	6.5	18	532	26	--	--	--	98
21...	0900	5.0	6.0	234	3.8	--	--	--	97
MAY									
11...	1500	13.0	9.5	256	6.6	--	--	--	99
13...	1500	15.0	11	174	5.2	--	--	--	99
18...	0750	11.5	10	190	5.1	--	--	--	99
25...	1220	14.0	12	258	8.8	--	--	--	99
JUN									
07...	1045	15.0	4.9	175	2.3	--	--	--	94
09...	1630	19.0	3.7	220	2.2	--	--	--	98
23...	1100	13.0	3.1	156	1.3	--	--	--	97
30...	1700	19.5	.89	102	.25	--	--	--	83
JUL									
01...	1615	21.0	1.0	94	.25	--	--	--	65

A Daily mean discharge.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM
MAR							
10...	1145	1.7	6.0	3	--	80	90
18...	1630	12	.0	--	33	85	90
23...	1700	7.4	1.5	--	26	72	81
APR							
21...	0900	6.0	5.0	--	31	63	74
MAY							
11...	1500	9.5	13.0	2	52	96	98
JUN							
09...	1630	3.7	19.0	--	35	92	95

DATE	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
MAR						
10...	96	98	100	--	--	--
18...	95	97	98	98	99	100
23...	95	100	--	--	--	--
APR						
21...	90	98	100	--	--	--
MAY						
11...	100	--	--	--	--	--
JUN						
09...	98	100	--	--	--	--

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER MEAN DISCHARGE (CFS)	OCTOBER MEAN CONCENTRATION (MG/L)	OCTOBER SEDIMENT DISCHARGE (TONS/DAY)	NOVEMBER MEAN DISCHARGE (CFS)	NOVEMBER MEAN CONCENTRATION (MG/L)	NOVEMBER SEDIMENT DISCHARGE (TONS/DAY)	DECEMBER MEAN DISCHARGE (CFS)	DECEMBER MEAN CONCENTRATION (MG/L)	DECEMBER SEDIMENT DISCHARGE (TONS/DAY)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
TOTAL	0	0	0	0	0	0	0	0	0

DAY	JANUARY MEAN DISCHARGE (CFS)	JANUARY MEAN CONCENTRATION (MG/L)	JANUARY SEDIMENT DISCHARGE (TONS/DAY)	FEBRUARY MEAN DISCHARGE (CFS)	FEBRUARY MEAN CONCENTRATION (MG/L)	FEBRUARY SEDIMENT DISCHARGE (TONS/DAY)	MARCH MEAN DISCHARGE (CFS)	MARCH MEAN CONCENTRATION (MG/L)	MARCH SEDIMENT DISCHARGE (TONS/DAY)
1				0	0	0	1.8	142	.69
2				0	0	0	1.2	117	.38
3				0	0	0	.80	97	.21
4				0	0	0	.50	81	.11
5				0	0	0	.30	62	.05
6				0	0	0	.40	74	.08
7				0	0	0	.55	88	.13
8				0	0	0	.80	97	.21
9				1.8	142	.69	1.2	117	.38
10				.90	102	.25	1.7	139	.64
11				0	0	0	3.1	179	1.5
12				0	0	0	4.4	210	2.5
13				0	0	0	6.4	249	4.3
14				.92	105	.26	9.4	296	7.5
15				.60	86	.14	14	344	13
16				0	0	0	20	407	22
17				0	0	0	21	423	24
18				0	0	0	12	340	11
19				0	0	0	7.0	259	4.9
20				0	0	0	12	340	11
21				0	0	0	7.0	259	4.9
22				0	0	0	5.2	228	3.2
23				0	0	0	7.8	271	5.7
24				0	0	0	8.5	283	6.5
25				0	0	0	14	344	13
26				0	0	0	9.3	291	7.3
27				.50	131	.18	6.7	254	4.6
28				1.5	155	.63	4.1	208	2.3
29				2.2	---	---	4.6	217	2.7
30				---	---	---	4.0	204	2.2
31				---	---	---	3.2	185	1.6
TOTAL	0	0	0	8.42	---	2.15	192.95	---	158.58

09216527 SEPARATION CREEK NEAR RIXER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6.1	243	4.0	5.8	236	3.7	8.5	283	6.5
2	21	423	24	6.2	245	4.1	7.5	267	5.4
3	16	370	16	6.2	245	4.1	6.9	258	4.8
4	19	409	21	6.5	251	4.4	6.3	247	4.2
5	23	435	27	6.7	254	4.6	6.0	241	3.9
6	25	459	31	6.8	256	4.7	5.3	231	3.3
7	10	303	8.2	7.6	268	5.5	5.0	245	3.3
8	12	360	11	7.5	267	5.4	4.5	242	2.9
9	15	370	15	8.2	276	6.1	3.9	218	2.3
10	12	340	11	9.1	289	7.1	3.8	221	2.3
11	17	392	18	9.2	290	7.2	3.4	211	1.9
12	22	421	25	10	304	8.2	3.0	187	1.5
13	22	421	25	11	316	9.4	3.6	159	1.5
14	18	391	19	11	248	7.4	6.3	251	4.3
15	15	370	15	11	228	6.8	10	393	11
16	11	316	9.4	12	272	8.8	10	331	8.9
17	7.9	272	5.8	12	251	8.1	9.1	255	6.3
18	7.5	267	5.4	11	202	6.0	7.8	223	4.7
19	5.5	229	3.4	10	198	5.3	8.2	211	4.7
20	5.3	231	3.3	11	249	7.4	7.1	205	3.9
21	6.2	244	4.1	12	307	9.9	5.0	180	2.4
22	6.1	243	4.0	14	324	12	3.4	195	1.8
23	8.5	279	6.4	16	290	13	3.1	202	1.7
24	8.3	277	6.2	14	293	11	3.5	169	1.6
25	7.9	272	5.8	12	257	8.3	3.1	128	1.1
26	7.9	272	5.8	11	242	7.2	2.6	112	.79
27	7.3	264	5.2	10	269	7.3	2.0	104	.56
28	7.0	259	4.9	9.9	299	8.0	1.5	105	.43
29	5.9	239	3.8	9.5	296	7.6	1.1	87	.26
30	6.2	245	4.1	9.5	296	7.6	.92	88	.22
31	---	---	---	9.1	289	7.1	---	---	---
TOTAL	361.6	---	347.8	305.8	---	223.3	152.42	---	98.46

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.98	156	.41	0					
2	1.2	161	.52	.05					
3	.95	123	.32	.01					
4	.92	112	.28	0					
5	.75	100	.20	0					
6	.58	92	.14	0					
7	.45	63	.08	0					
8	.32	68	.06	0					
9	.19	75	.04	0					
10	.08	50	.01	0					
11	.01	34	0	0					
12	0	0	0	0					
13	0	0	0	0					
14	0	0	0	0					
15	0	0	0	0					
16	0	0	0	0					
17	0	0	0	0					
18	0	0	0	0					
19	0	0	0	0					
20	0	0	0	0					
21	0	0	0	0					
22	0	0	0	0					
23	0	0	0	0					
24	0	0	0	0					
25	0	0	0	0					
26	0	0	0	0					
27	.93	11900	70	0					
28	.04	0	0	0					
29	0	0	0	0					
30	0	0	0	0					
31	0	0	0	0					
TOTAL	7.40	---	72.06	.06	0	0	0	0	0
YEAR	1028.65		902						

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

MAR. 1, 1976
1715 HOURS

IDENTIFICATION OF PHYTOPLANKTON

460 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTHODESMUS		29	6
		TOTALS	29	6
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...NITZSCHIACEAE			
L	....HANTZSCHIA			0
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
D	....ANABAENA		140	31
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		240	62
		TOTALS	430	93

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
L - LESS THEN 1%: MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.337
CLASS 0.337
ORDER 0.337
FAMILY 1.198
GENERA 1.198

MAR. 10, 1976
1145 HOURS

IDENTIFICATION OF PHYTOPLANKTON

53,000 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....CHLORELLA		1,300	2
		TOTALS	1,300	2
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		1,300	2
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....CYMBELLA		1,300	2
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		3,900	7
	...NITZSCHIACEAE			
	....NITZSCHIA		2,600	5
		TOTALS	9,000	16
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		43,000	80
		TOTALS	43,000	80

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SLIDE MOUNTING
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.818
CLASS 0.818
ORDER 0.919
FAMILY 1.133
GENERA 1.133

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

MAY 13, 1976
1030 HOURS

IDENTIFICATION OF PHYTOPLANKTON

540 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OOCYSTACEAE			
	....ANKISTRODESMUS		24	5
		TOTALS	24	5
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...CYMBELLACEAE			
	....EPITHEMIA		24	5
	...FRAGILARIACEAE			
	....SYNEDRA		24	5
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		24	5
	...NAVICULACEAE	NAVICULOID		
	....CALONEIS		24	5
D	....NAVICULA		97	18
	...NITZSCHIACEAE			
D	....NITZSCHIA		150	27
	...SURIRELLACEAE			
D	....SURIRELLA		170	32
		TOTALS	510	97

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER . 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.267
CLASS 0.267
ORDER 0.267
FAMILY 2.333
GENERA 2.498

PERIPHYTON ANALYSES

MAR. 10, 1976
1145 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....EPITHEMIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
	..HETEROTRICHALES	
	...TRIBONEMATACEAE	
O	....TRIBONEMA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

MAY 13, 1976
1030 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_	_COMMON__NAME_
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
O	....EPITHEMIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
	..HETEROTRICHALES	
	...TRIBONEMATACEAE	
E	....TRIBONEMA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216537 DELANEY DRAW NEAR RED DESERT, WY

LOCATION.--Lat 41°38'18", long 108°07'26", in NE¼ sec.8, T.19 N., R.95 W., Sweetwater County, Hydrologic Unit 14040200, 1.0 mi (1.6 km) south of Red Desert and 1.3 mi (2.1 km) upstream from culvert on Interstate Highway 80.

DRAINAGE AREA.--32.8 mi^2 (85.0 km^2).

PERIOD OF RECORD.--April to September 1976.

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
APR												
06...	1630	.30	350	3.0	3600	20	0	5.4	1.6	72	7.0	1.8

DATE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
APR												
06...	175	144	41	2.8	.3	5.6	220	.30	.18	.76	30	150

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR						
06...	1630	3.0	.30	4080	3.3	100
AUG						
03...	A1800	--	10	9390	254	--
03...	A1810	--	30	13700	1110	--
03...	A1820	--	60	10000	1620	--
SEP						
15...	A1800	--	10	27700	748	--
15...	A1810	--	30	21800	1770	--
15...	A1820	--	60	16100	2610	--

A Sample collected by single-stage sampler; time of sample estimated.

09216545 (REVISED) BITTER CREEK NEAR BITTER CREEK, WY

LOCATION.--Lat 41°29'35", long 108°30'47", in NW¼NW¼SE¼ sec.36, T.18 N., R.99 W., Sweetwater County, Hydrologic Unit 14040105, on left bank 2.1 mi (3.4 km) downstream from Red Wash and 4.8 mi (7.7 km) southeast of town of Bitter Creek.

DRAINAGE AREA.--308 mi² (798 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,760 ft (2,060 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 62 ft³/s (1.76 m³/s) Sept. 11, 1975, gage height, 4.55 ft (1.387 m); maximum gage height, 5.26 ft (1.603 m) Mar. 19, 1976 (backwater from ice); minimum daily discharge, 0.20 ft³/s (0.006 m³/s) July 15, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39 ft³/s (1.10 m³/s) May 23, gage height, 4.02 ft (1.225 m), from floodmark; maximum gage height, 5.26 ft (1.603 m) Mar. 19 (backwater from ice); minimum daily discharge, 0.20 ft³/s (0.006 m³/s) July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.4	1.3	1.4	2.8	5.2	2.3	.86	1.5	.46	2.0	.36
2	1.3	1.4	1.5	1.2	2.9	4.9	2.5	1.3	1.3	.44	2.1	.36
3	1.4	1.5	1.8	1.1	2.9	4.5	2.2	1.2	1.0	.42	14	.38
4	1.4	1.5	2.0	1.0	2.7	4.3	2.3	.99	.99	.42	7.6	.36
5	1.4	1.6	2.2	.96	2.5	4.1	2.2	.99	.94	.40	.66	.36
6	1.5	1.4	2.3	.94	2.3	3.9	2.6	.97	.94	.38	.40	.38
7	1.5	1.3	2.2	1.0	2.2	3.8	2.3	.97	.99	.64	.42	.38
8	1.5	1.3	2.1	1.1	2.1	3.7	2.8	.95	.99	.51	.42	.40
9	1.5	1.2	2.0	1.2	2.0	3.9	4.6	.99	.86	.33	.40	.42
10	1.5	1.1	2.1	1.1	2.2	4.2	2.8	1.0	1.2	.34	.40	.42
11	1.5	.95	2.0	1.1	2.4	4.4	1.7	1.1	.94	.34	.40	.46
12	1.5	.78	1.9	1.1	2.6	4.4	1.8	1.1	.82	.36	.40	.44
13	1.6	.84	1.8	1.2	2.6	4.2	1.5	1.1	.74	.34	.40	.38
14	1.6	.88	1.6	1.3	2.5	4.1	1.1	1.2	.78	.22	.40	.36
15	1.6	.96	1.5	1.4	2.4	3.9	.99	1.2	1.5	.20	.40	2.6
16	1.6	1.1	1.6	1.6	2.6	3.8	.90	1.2	.86	.21	.38	.99
17	1.5	1.2	1.6	1.8	2.5	3.7	.94	1.1	.50	.31	.38	.62
18	1.5	1.2	1.5	2.0	2.4	3.9	1.3	1.1	.56	.34	.36	.62
19	1.5	1.1	1.4	2.2	2.5	4.3	1.8	1.1	.71	.40	.38	.62
20	1.5	.90	1.4	2.1	2.6	4.1	3.4	1.0	.68	.40	.38	.65
21	1.5	.93	1.3	2.0	2.5	3.9	2.9	1.2	.62	.63	.38	.65
22	1.5	.92	1.2	2.1	2.4	3.7	2.0	1.9	.56	.60	.40	.68
23	1.4	.90	1.3	2.2	2.3	3.5	1.5	6.0	.56	.44	.38	.71
24	1.3	.88	1.4	2.2	2.6	3.4	1.3	16	.56	.34	.38	.74
25	1.1	.86	1.5	2.1	3.0	3.2	.90	10	.56	.36	.38	.71
26	1.2	.85	1.6	1.9	3.5	3.0	.90	3.5	.56	.46	.40	1.2
27	1.3	.87	1.6	2.0	4.0	2.8	.99	3.0	.56	2.1	.36	.90
28	1.3	.91	1.4	2.1	4.7	2.6	.99	2.5	.50	.71	.38	.78
29	1.2	1.0	1.3	2.3	5.5	2.4	.90	1.9	.46	.53	.40	1.0
30	1.3	1.1	1.4	2.5	---	2.3	.86	1.9	.46	2.3	.40	.78
31	1.3	---	1.5	2.7	---	2.2	---	1.8	---	.62	.36	---
TOTAL	44.0	32.83	51.3	50.90	80.2	116.3	55.27	71.12	24.20	16.55	36.50	19.71
MEAN	1.42	1.09	1.65	1.64	2.77	3.75	1.84	2.29	.81	.53	1.18	.66
MAX	1.6	1.6	2.3	2.7	5.5	5.2	4.6	16	1.5	2.3	14	2.6
MIN	1.1	.78	1.2	.94	2.0	2.2	.86	.86	.46	.20	.36	.36
AC-FT	87	65	102	101	159	231	110	141	48	33	72	39

WTR YR 1976 TOTAL 598.88 MEAN 1.64 MAX 16 MIN .20 AC-FT 1190

09216545 (REVISED) BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT												
08...	1235	1.5	1450	--	5.0	34	--	--	--	--	--	--
19...	1400	1.5	1900	8.4	9.5	25	10.2	--	260	0	48	34
NOV												
03...	1700	A1.5	1600	--	7.0	30	--	--	--	--	--	--
16...	1530	A1.1	1900	8.3	2.0	47	9.8	--	270	0	54	32
DEC												
06...	1620	A2.3	1500	--	.5	45	--	--	--	--	--	--
16...	1430	A1.6	2400	8.4	.5	65	10.8	1.4	260	0	55	30
JAN												
18...	1430	A2.0	2100	8.2	1.0	100	11.2	2.6	280	0	57	33
21...	1230	A2.0	2200	--	.0	100	--	--	--	--	--	--
FEB												
15...	1430	A2.6	1650	8.3	.5	40	9.8	2.4	230	0	49	27
MAR												
05...	1340	A4.1	740	--	.0	170	--	--	--	--	--	--
18...	1415	A3.9	620	8.0	2.0	470	9.6	5.4	100	0	22	12
APR												
09...	1300	7.6	1300	--	9.0	250	--	--	--	--	--	--
20...	1500	1.9	1600	8.5	8.5	58	8.9	2.7	180	0	41	19
MAY												
06...	1100	.99	1850	--	9.0	95	--	--	--	--	--	--
27...	1525	2.9	1400	--	23.0	280	--	--	--	--	--	--
30...	0930	1.9	1700	8.5	9.0	20	9.0	2.2	220	0		26
JUN												
03...	1310	.94	1850	--	21.0	15	--	--	--	--	--	--
21...	1545	.56	2000	8.9	26.0	7	8.2	3.2	190	0	30	28
JUL												
06...	1500	.36	2100	--	25.5	7	--	--	--	--	--	--
20...	1730	.42	2000	9.0	26.0	10	8.3	3.2	150	0	18	26
27...	0915	2.9	1250	8.2	15.0	700	7.5	6.0	100	0	23	11
27...	1515	2.2	1050	--	24.2	440	--	--	--	--	--	--
AUG												
04...	1650	5.3	1800	--	22.0	310	--	--	--	--	--	--
16...	1520	.36	2100	8.8	22.5	55	9.3	3.3	200	0	29	30
17...	1430	.36	1800	8.6	22.0	60	7.9	8.7	190	0	28	29
30...	1330	.42	1500	--	20.5	60	--	--	--	--	--	--
SEP												
14...	1415	.40	2000	8.6	19.0	90	9.7	4.0	210	0	33	30

A Daily mean discharge.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
OCT												
08...	--	--	--	--	--	--	--	--	--	--	--	--
19...	340	9.2	2.2	391	6	331	530	63	.7	8.6	1230	1.67
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
16...	380	10	2.7	423	0	347	680	45	.9	10	1410	1.92
DEC												
06...	--	--	--	--	--	--	--	--	--	--	--	--
16...	460	12	2.4	431	12	373	790	57	1.1	11	1630	2.22
JAN												
18...	350	9.1	2.5	434	0	356	580	39	.8	12	1290	1.75
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	310	8.8	3.1	383	0	314	560	36	.8	10	1190	1.62
MAR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	140	6.0	2.6	171	0	140	180	16	.4	6.0	463	.63
APR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
20...	290	9.4	3.6	315	6	268	450	36	.6	6.4	1010	1.37
MAY												
06...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
30...	310	9.2	2.3	389	0	319	530	36	.6	11	1150	1.56
JUN												
03...	--	--	--	--	--	--	--	--	--	--	--	--
21...	350	11	3.3	342	0	281	650	43	.8	6.4	1280	1.74
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
20...	470	17	3.1	271	36	282	830	51	1.2	.6	1570	2.14
27...	230	9.9	3.8	205	0	168	400	33	.7	6.6	809	1.10
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	--	--	--	--	--	--	--	--	--	--	--	--
16...	380	12	3.6	374	14	330	620	38	.9	1.4	1300	1.77
17...	380	12	5.9	421	0	345	600	38	1.1	1.2	1290	1.75
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	360	11	4.5	393	7	334	630	37	.6	1.2	1300	1.77

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)
OCT												
08...	--	--	--	--	--	--	--	--	--	--	--	--
19...	4.98	.01	--	.04	--	.01	--	.05	--	.06	.07	--
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
16...	4.19	.04	--	.00	--	.39	--	.39	--	.43	.08	--
DEC												
06...	--	--	--	--	--	--	--	--	--	--	--	--
16...	7.04	.09	--	.00	--	.66	--	.66	--	.75	.05	--
JAN												
18...	6.97	.16	--	.05	--	.84	--	.89	--	1.1	.25	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	8.35	.07	--	.02	--	.44	--	.46	--	.53	.08	--
MAR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	4.88	.14	--	.41	--	.99	--	1.4	--	1.5	6.2	--
APR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
20...	5.18	.13	--	.03	--	.96	--	.99	--	1.1	.16	--
MAY												
06...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
30...	5.90	.15	--	.04	--	.46	--	.50	--	.65	.07	--
JUN												
03...	--	--	--	--	--	--	--	--	--	--	--	--
21...	1.94	.03	--	.06	--	.67	--	.73	--	.76	.05	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
20...	1.78	.02	.03	.00	.00	.33	.34	.33	.34	.35	.05	.01
27...	6.33	.15	--	.04	--	2.6	--	2.6	--	2.8	1.0	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	--	--	--	--	--	--	--	--	--	--	--	--
16...	1.26	.08	--	.10	--	.68	--	.78	--	.86	.13	--
17...	1.25	.02	.09	.18	.00	2.0	1.8	2.2	1.8	2.2	.17	.03
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	1.40	.09	--	.13	--	.87	--	1.0	--	1.1	.19	--

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
OCT												
08...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
03...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
06...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
18...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
06...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
03...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
06...	--	--	--	--	--	--	--	--	--	--	--	--
20...	.00	.00	4600	3.0	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
04...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
17...	.00	.00	2700	.2	100	109	523	3.12	.90	.000	.200	.014
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
14...	--	--	--	--	--	--	--	--	--	--	--	--

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
OCT											
19...	1400	1500	0	1	1	10	10	200	0	1	100
NOV											
16...	1530	--	--	--	--	--	--	220	--	--	--
DEC											
16...	1430	--	--	--	--	--	--	240	--	--	--
JAN											
18...	1430	7500	--	4	--	10	--	190	<10	--	10
FEB											
15...	1430	--	--	--	--	--	--	180	--	--	--
MAR											
18...	1415	--	--	--	--	--	--	120	--	--	--
APR											
20...	1500	3900	--	4	--	10	--	140	<10	--	0
MAY											
30...	0930	--	--	--	--	--	--	180	--	--	--
JUN											
21...	1545	--	--	--	--	--	--	290	--	--	--
JUL											
20...	1730	--	--	--	--	--	--	250	--	--	--
27...	0915	38000	--	27	--	0	--	190	<10	--	60
AUG											
16...	1520	--	--	--	--	--	--	220	--	--	--
17...	1430	--	--	--	--	--	--	210	--	--	--
SEP											
14...	1415	--	--	--	--	--	--	220	--	--	--

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
OCT											
19...	0	10	2	1500	0	<100	3	50	40	30	10
NOV											
16...	--	--	--	--	110	--	--	--	--	--	--
DEC											
16...	--	--	--	--	0	--	--	--	--	--	--
JAN											
18...	--	20	--	7900	30	<100	--	60	--	200	--
FEB											
15...	--	--	--	--	40	--	--	--	--	--	--
MAR											
18...	--	--	--	--	40	--	--	--	--	--	--
APR											
20...	--	10	--	4300	20	<100	--	50	--	90	--
MAY											
30...	--	--	--	--	130	--	--	--	--	--	--
JUN											
21...	--	--	--	--	10	--	--	--	--	--	--
JUL											
20...	--	--	--	--	40	--	--	--	--	--	10
27...	--	60	--	39000	100	100	--	100	--	630	--
AUG											
16...	--	--	--	--	30	--	--	--	--	--	--
17...	--	--	--	--	30	--	--	--	--	--	10
SEP											
14...	--	--	--	--	80	--	--	--	--	--	--

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT											
19...	.0	.0	11	13	50	4	1	1	3.0	10	10
NOV											
16...	--	--	--	--	--	--	--	--	--	--	--
DEC											
16...	--	--	--	--	--	--	--	--	--	--	--
JAN											
18...	.0	--	12	--	<50	--	1	--	--	50	--
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	.0	--	7	--	<50	--	2	--	--	60	--
MAY											
30...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
20...	--	--	--	--	--	--	--	--	--	--	--
27...	.0	--	5	--	70	--	1	--	--	150	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
14...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT									
08...	1235	5.0	1.5	61	.25	--	--	--	--
NOV									
03...	1700	7.0	A1.5	88	.36	--	--	--	--
DEC									
06...	1620	.5	A2.3	216	1.3	--	--	--	--
JAN									
21...	1230	.0	A2.0	655	3.5	--	--	--	--
MAR									
05...	1340	.0	A4.1	492	5.4	--	--	--	--
APR									
09...	1300	9.0	7.6	654	13	--	--	--	88
MAY									
06...	1100	9.0	.99	280	.75	--	--	--	92
23...	--	--	E15	9150	371	--	--	--	99
27...	1525	23.0	2.9	292	2.3	--	--	--	86
JUN									
03...	1310	21.0	.94	66	.17	--	--	--	77
JUL									
06...	1500	25.5	.36	22	.02	--	--	--	68
20...	1730	26.0	.42	108	.12	--	--	--	86
27...	1515	24.5	2.2	650	3.9	78	96	100	--
AUG									
03...	--	--	E14	3780	143	--	--	--	--
04...	1650	22.0	5.3	618	8.8	--	--	--	92
17...	1430	22.0	.36	116	.11	--	--	--	--
30...	1330	20.5	.42	210	.24	--	--	--	91

A Daily mean discharge.
E Estimate.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
MAY								
06...	1100	.99	9.0	3	37	59	68	83
JUL								
27...	1515	2.2	24.5	4	19	38	56	73

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAY								
06...	89	90	94	97	98	100	--	--
JUL								
27...	77	77	79	80	81	82	98	100

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUL 20,76	AUG 17,76
TIME	1730	1430
TOTAL CELLS/ML	4600	2700
DIVERSITY: DIVISION	0.7	0.1
.CLASS	0.7	0.1
..ORDER	0.8	0.5
...FAMILY	1.3	1.2
....GENUS	1.3	1.2

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS	45	1	--	-
....OOCYSTIS	--	-	38	2
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	--	-	190	8
..PENNALES				
...CYMBELLACEAE				
....CYMBELLA	45	1	--	-
....RHOPALODIA	67	2	--	-
...FRAGILARIACEAE				
....FRAGILARIA	45	1	--	-
....SYNEDRA	--	-	38	2
...GOMPHONEMATACEAE				
....GOMPHONEMA	--	-	38	2
...NAVICULACEAE				
....NAVICULA	90	2	310	12
...NITZSCHIACEAE				
....NITZSCHIA	520	12	2100#	78
CYANOPHYTA (BLUE-GREEN ALGAE)				
.MYXOPHYCEAE				
..CHROOCOCCALES				
...CHROOCOCCACEAE				
....ANACYSTIS	45	1	--	-
..OSCILLATORIALES				
...NOSTOCACEAE				
....ANABAENA	250	6	--	-
...OSCILLATORIACEAE				
....OSCILLATORIA	3500#	77	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM. MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JULY 20, 1976
1730 HOURS

IDENTIFICATION OF PERIPHYTUN

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....RHIZOCLONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIOS
O	....COSMARIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
E	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....AMPHIPRORA	
O	....CALONEIS	
O	....GYROSIGMA	
O	....MASTOGLOIA	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	
O	....SPIRULINA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....TRACHELOMONAS	

AUG. 17, 1976
1430 HOURS

IDENTIFICATION OF PERIPHYTUN

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
E	....STIGEOCLONIUM	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIOS
O	....COSMARIUM	
	CHRYSOPHYTA	
	.BACILLARIUPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216550 DEADMAN WASH NEAR POINT OF ROCKS, WY

LOCATION.--Lat 41°40'30", long 108°44'10", in SE¼ sec.25, T.20 N., R.101 W., Sweetwater County, Hydrologic Unit 14040105, at bridge on old U.S. Highway 30 and 2.8 mi (4.5 km) east of Point of Rocks.

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--March 1976.

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR 24...	1500	2.0	1500	8.6	6.5	590	440	250	73	63

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR 24...	190	3.9	8.9	229	0	188	540	110	.5	4.3

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 24...	1100	1.50	5.94	.15	170	70	1590	8.6	93

09216560 BITTER CREEK NEAR POINT OF ROCKS, WY

LOCATION.--Lat 41°40'40", long 108°47'10", in SW¼ sec.27, T.20 N., R.101 W., Sweetwater County, Hydrologic Unit 14040105, at bridge on dirt road and 0.2 mi (0.3 km) south of Point of Rocks.

DRAINAGE AREA.--765 mi² (1,981 km²), of which about 7 mi² (18 km²) is probably noncontributing.

PERIOD OF RECORD.--Water years 1975 to September 1976 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT									
08...	0730	E1.5	2900	--	1.0	32	--	--	--
MAR									
24...	1415	16	1010	8.4	.0	1000	190	0	33

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT									
08...	--	--	--	--	--	--	--	--	--
MAR									
24...	23	150	4.9	4.3	221	0	181	210	65

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT								
08...	--	--	--	--	--	--	--	--
MAR								
24...	.5	5.0	601	.82	26.0	.21	120	100

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						
08...	0730	1.0	E1.5	54	.22	--
MAR						
24...	1415	.0	16	4040	175	91

E Estimate.

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY

LOCATION.--Lat 41°38'52", long 108°59'50", in SW¼SE¼SW¼ sec.2, T.19 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on right bank at upstream side of bridge on county road, 0.9 mi (1.4 km) southwest of Salt Wells, 2.3 mi (3.7 km) upstream from Salt Wells Creek, and 12 mi (19 km) east of Rock Springs.

DRAINAGE AREA.--836 mi^2 (2,165 km^2), of which 6.8 mi^2 (17.6 km^2) is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,330 ft (1,929 m), from topographic map.

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD JUNE TO SEPTEMBER.--Maximum discharge, 683 ft^3/s (19.3 m^3/s) Aug. 1, gage height, 6.58 ft (2.006 m), from floodmarks; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.56	0	111	0
2									.46	0	57	0
3									.40	0	17	0
4									.33	0	105	0
5									.34	0	.84	0
6									.06	0	.76	0
7									0	0	.64	0
8									0	0	.46	0
9									0	0	.44	0
10									0	0	.40	0
11									.10	0	.46	0
12									.34	0	.38	0
13									.44	0	.22	0
14									.50	0	.10	0
15									.40	0	.04	0
16									.33	0	.02	0
17									.36	0	0	0
18									1.1	0	0	0
19									1.5	0	0	0
20									.87	0	0	0
21									.58	0	0	0
22									.60	0	0	0
23									.70	0	0	0
24									1.4	0	0	0
25									.72	0	0	0
26									.40	0	0	0
27									.25	0	0	.50
28									.12	0	0	0
29									0	0	0	0
30									0	0	0	0
31									---	.86	0	---
TOTAL									12.86	.86	294.76	.50
MEAN									.43	.028	9.51	.017
MAX									1.5	.86	111	.50
MIN									0	0	0	0
AC-FT									26	1.7	585	1.0

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1975 to September 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV										
17...	0800	3.0	4400	8.2	1.0	36	10.9	--	1000	580
DEC										
17...	0915	6.0	4000	8.1	.0	55	11.6	.8	780	350
JAN										
19...	0915	7.0	>8000	7.9	.0	8	11.8	2.7	2400	1600
FEB										
16...	0900	6.5	4000	7.8	.0	35	9.9	4.4	870	440
MAR										
20...	0830	10	1600	8.1	.0	400	11.7	6.6	250	60
24...	1015	16	970	8.2	.0	650	--	--	170	4
APR										
25...	1000	5.0	3600	8.3	5.5	200	10.2	3.8	710	370
MAY										
19...	1320	.14	>8000	--	26.5	10	--	--	--	--
25...	0900	.56	5200	8.5	11.0	60	9.0	4.2	1200	830
27...	1140	14	2300	--	16.5	1700	--	--	--	--
JUN										
03...	1040	.40	5000	--	19.5	20	--	--	--	--
22...	0900	.48	>8000	8.5	14.0	3	8.7	4.2	2100	1800
23...	1400	.86	2400	--	19.0	1800	--	--	--	--
JUL										
20...	1500	.00	--	--	--	--	--	--	--	--
AUG										
04...	1145	92	900	--	15.0	6800	--	--	--	--
11...	1700	.46	4500	--	21.0	35	--	--	--	--

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV									
17...	160	150	780	11	12	532	0	436	1600
DEC									
17...	130	110	610	9.5	9.0	522	0	428	1100
JAN									
19...	300	390	1900	17	22	895	0	734	3900
FEB									
16...	150	120	620	9.2	12	525	0	431	1300
MAR									
20...	47	31	250	7.0	6.1	225	0	185	420
24...	32	22	150	5.0	4.3	203	0	167	260
APR									
25...	120	99	480	7.9	8.9	411	0	337	940
MAY									
19...	--	--	--	--	--	--	--	--	--
25...	150	190	850	11	12	400	0	328	1700
27...	--	--	--	--	--	--	--	--	--
JUN									
03...	--	--	--	--	--	--	--	--	--
22...	260	360	1400	13	10	352	0	289	3100
23...	--	--	--	--	--	--	--	--	--
JUL									
20...	--	--	--	--	--	--	--	--	--
AUG									
04...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)
NOV									
17...	520	.8	3.9	3490	4.75	28.3	.02	--	.00
DEC									
17...	330	.8	7.2	2550	3.47	41.3	.01	--	.01
JAN									
19...	1400	.9	14	8370	11.4	158	.36	--	.19
FEB									
16...	390	.9	9.3	2860	3.89	50.2	.27	--	.06
MAR									
20...	140	.6	4.0	1010	1.37	27.3	.39	--	.13
24...	54	.5	5.8	630	.86	27.2	--	.16	--
APR									
25...	320	.7	4.4	2180	2.96	29.4	.01	--	.03
MAY									
19...	--	--	--	--	--	--	--	--	--
25...	660	.6	2.4	3760	5.11	5.69	.08	--	.05
27...	--	--	--	--	--	--	--	--	--
JUN									
03...	--	--	--	--	--	--	--	--	--
22...	1200	.1	1.6	6510	8.85	8.44	.05	--	.13
23...	--	--	--	--	--	--	--	--	--
JUL									
20...	--	--	--	--	--	--	--	--	--
AUG									
04...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
NOV									
17...	.30	.30	.32	.05	--	--	--	--	--
DEC									
17...	.46	.47	.48	.06	--	--	--	--	--
JAN									
19...	1.3	1.5	1.9	.04	--	--	--	--	--
FEB									
16...	1.1	1.2	1.5	.09	--	--	--	--	--
MAR									
20...	1.2	1.3	1.7	2.3	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
APR									
25...	1.3	1.3	1.3	.40	--	--	--	--	--
MAY									
19...	--	--	--	--	--	--	--	--	--
25...	1.3	1.3	1.4	.12	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
JUN									
03...	--	--	--	--	--	--	--	--	--
22...	.82	.95	1.0	.06	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
JUL									
20...	--	--	--	--	1237	1276	667	.084	.040
AUG									
04...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
NOV											
17...	0800	--	--	--	--	--	--	500	--	--	--
DEC											
17...	0915	--	--	--	--	--	--	350	--	--	--
JAN											
19...	0915	240	0	2	0	10	10	770	20	2	0
FEB											
16...	0900	--	--	--	--	--	--	360	--	--	--
MAR											
20...	0830	--	--	--	--	--	--	220	--	--	--
24...	1015	--	--	--	--	--	--	110	--	--	--
APR											
25...	1000	6500	--	4	--	0	--	310	<10	--	20
MAY											
25...	0900	--	--	--	--	--	--	550	--	--	--
JUN											
22...	0900	--	--	--	--	--	--	690	--	--	--

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
NOV											
17...	--	--	--	--	80	--	--	--	--	--	--
DEC											
17...	--	--	--	--	20	--	--	--	--	--	--
JAN											
19...	0	30	4	290	30	120	6	260	250	400	330
FEB											
16...	--	--	--	--	20	--	--	--	--	--	--
MAR											
20...	--	--	--	--	40	--	--	--	--	--	--
24...	--	--	--	--	100	--	--	--	--	--	--
APR											
25...	--	20	--	10000	60	<100	--	90	--	290	--
MAY											
25...	--	--	--	--	60	--	--	--	--	--	--
JUN											
22...	--	--	--	--	10	--	--	--	--	--	--

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
DEC											
17...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	.0	.0	13	14	50	6	2	1	9.5	50	30
FEB											
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
20...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
APR											
25...	.0	--	7	--	<50	--	1	--	--	60	--
MAY											
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
22...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV										
17...	0800	1.0	3.0	1780	14	--	--	--	--	--
DEC										
17...	0915	.0	6.0	290	4.7	--	--	--	--	--
JAN										
19...	0915	.0	7.0	40	.76	--	--	--	--	--
FEB										
16...	0900	.0	6.5	170	3.1	--	--	--	--	--
MAR										
20...	0830	.0	10	542	15	--	--	--	--	96
24...	1015	.0	16	1760	76	--	--	--	--	86
APR										
25...	1000	5.5	5.0	608	8.2	--	--	--	--	93
MAY										
19...	1320	26.5	.14	48	.02	--	--	--	--	75
27...	1140	16.5	14	7320	277	62	77	97	100	--
JUN										
03...	1040	19.5	.48	129	.17	--	--	--	--	80
23...	1400	19.0	.86	2920	6.8	--	--	--	--	98
AUG										
04...	1145	15.0	92	22600	5610	--	--	--	--	83
11...	1700	21.0	.46	252	.31	--	--	--	--	83

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAY									
19...	1320	.14	26.5	9	6	24	59	96	100

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JULY 20, 1976
1500 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....GYROSIGMA	
O	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°11'54", long 108°59'51", in SE¼NE¼NW¼ sec.15, T.14 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, 15 ft (5 m) upstream from trail ford and 13.2 mi (21.2 km) southeast of South Baxter.

DRAINAGE AREA.--34.7 mi² (89.9 km²).

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
FEB												
11...	1600	1.0	1120	7.9	.0	80	--	1.8	480	190	92	61
MAR												
09...	1400	1.2	1000	8.4	1.0	210	11.3	--	--	--	--	--
31...	1245	1.5	1180	8.7	7.0	500	--	--	470	190	89	61
APR												
20...	1220	.60	1100	8.6	10.0	330	9.4	2.5	470	180	92	59
JUN												
03...	1230	1.5	770	8.5	17.0	225	8.3	.8	--	--	--	--
07...	1630	2.8	800	--	20.0	125	--	--	--	--	--	--
25...	0830	1.0	950	8.4	9.0	100	7.9	1.6	--	--	--	--
JUL												
10...	1500	.59	910	8.6	29.0	2	6.3	1.4	340	140	49	52
10...	1510	.59	--	--	29.5	1	--	--	--	--	--	--
12...	1445	.54	1080	--	20.0	3	--	--	--	--	--	--
AUG												
01...	1300	3.1	1420	8.5	21.0	1200	6.6	3.1	560	340	84	86
03...	1400	7.4	900	--	16.0	3000	--	--	--	--	--	--
14...	1430	1.5	1430	8.5	21.0	10	--	--	--	--	--	--

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
FEB												
11...	83	1.6	3.9	350	0	287	370	.	.3	12	807	1.10
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
31...	89	1.8	5.2	329	7	282	360	17	.2	12	804	1.09
APR												
20...	84	1.7	4.4	359	0	294	320	10	.2	14	762	1.04
JUN												
03...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	79	1.9	4.7	225	8	198	290	10	.3	11	615	.84
10...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	150	2.8	8.4	271	0	222	600	19	.2	9.1	1090	1.48
03...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
FEB												
11...	2.18	.28	.28	.02	--	.50	--	.52	--	.80	.18	--
MAR												
09...	--	--	.33	--	.05	--	--	--	--	--	--	.02
31...	3.26	--	.29	--	.04	--	.38	--	.42	--	--	.03
APR												
20...	1.23	.22	.22	.03	.03	1.8	.43	1.8	.46	2.0	.48	.03
JUN												
03...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
10...	.98	--	.00	--	.01	--	--	--	--	--	--	.01
10...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	9.12	.06	.04	.00	.02	2.0	1.9	2.0	1.9	2.1	1.5	.01
03...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
FEB												
11...	--	.02	--	.0	--	--	--	--	--	--	--	--
MAR												
09...	--	--	1500	.0	--	--	--	--	--	--	--	--
31...	.01	.03	--	--	--	--	--	--	--	--	--	--
APR												
20...	.03	.09	860	4.1	--	--	--	--	--	--	--	--
JUN												
03...	--	--	2800	1.6	.808	5.54	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	2800	4.8	--	--	--	--	--	--	--	--
JUL												
10...	.01	.03	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	.00	.00	120000	.2	28.0	40.8	72.0	1351	.12	.039	1.54	.172
03...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
FEB											
11...	1600	--	--	--	--	--	--	90	--	--	--
MAR											
31...	1245	--	--	--	--	--	--	140	--	--	--
APR											
20...	1220	13000	70	18	3	0	0	80	<10	1	20
JUL											
10...	1500	--	--	--	--	--	--	130	--	--	--
AUG											
01...	1300	--	--	--	--	--	--	120	--	--	--

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
FEB											
11...	--	--	--	--	30	--	--	--	--	--	--
MAR											
31...	--	--	--	--	40	--	--	--	--	--	--
APR											
20...	0	20	1	20000	30	<100	3	40	30	530	50
JUL											
10...	--	--	--	--	80	--	--	--	--	--	--
AUG											
01...	--	--	--	--	130	--	--	--	--	--	30

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
FEB											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
20...	.0	.0	5	4	<50	2	2	1	1.5	70	0
JUL											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB											
11...	1600	.0	1.0	216	.58	--	--	--	--	--	--
MAR											
09...	1400	1.0	1.2	1640	5.3	--	--	--	--	--	74
24...	1130	.0	E2.5	18800	--	--	--	--	--	--	99
31...	1245	7.0	1.5	1330	5.4	--	--	--	--	--	99
APR											
20...	1220	10.0	.60	762	1.2	--	--	--	--	--	98
MAY											
12...	1445	15.0	3.5	3300	31	39	64	92	97	100	--
JUN											
03...	1230	17.0	1.5	366	1.5	--	--	--	--	--	96
07...	1630	20.0	2.8	308	2.3	--	--	--	--	--	88
25...	0830	9.0	1.0	78	.21	--	--	--	--	--	82
JUL											
10...	1500	29.0	.59	10	.02	--	--	--	--	--	80
10...	1510	29.5	.59	14	.02	--	--	--	--	--	81
12...	1445	20.0	.54	12	.02	--	--	--	--	--	77
AUG											
01...	1300	21.0	3.1	2350	20	--	--	--	--	--	99
03...	1400	16.0	7.4	14400	288	--	--	--	--	--	98
14...	1430	21.0	1.5	68	.28	--	--	--	--	--	78

E Estimate.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
FEB							
11...	1600	1.0	.0	1	1	2	6
MAY							
12...	1445	3.5	15.0	2	6	23	34

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
FEB						
11...	12	18	26	36	46	80
MAY						
12...	44	52	63	79	91	100

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	MAR 9.76		APR 20.76		JUN 3.76		JUN 25.76		AUG 1.76	
TIME	1430		1220		1230		0830		1300	
TOTAL CELLS/ML	1500		860		2800		2800		120000	
DIVERSITY: DIVISION	0.3		0.0		0.0		0.0		0.0	
.CLASS	0.3		0.0		0.0		0.0		0.0	
..ORDER	0.3		0.0		0.0		0.0		0.0	
...FAMILY	2.6		0.9		2.2		1.9		2.1	
....GENUS	3.2		0.9		2.3		1.9		2.2	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	77	6	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	77	6	--	-	52	2	240	8	5700	5
....RHOICOSPHENIA	77	6	--	-	52	2	*	0	2800	3
...CYMBELLACEAE										
....CYMBELLA	77	6	--	-	--	-	--	-	2800	3
....EPITHEMIA	77	6	--	-	--	-	*	0	--	-
....RHOPALODIA	--	-	--	-	--	-	--	-	2800	3
...FRAGILARIACEAE										
....SYNEDRA	230#	16	--	-	160	6	--	-	2800	3
...GOMPHONEMATACEAE										
....GOMPHONEMA	*	0	290#	34	730#	27	150	6	8500	8
...NAVICULACEAE										
....AMPHIPLEURA	77	6	--	-	--	-	--	-	--	-
....GYROSIGMA	77	6	--	-	*	0	--	-	--	-
....NAVICULA	310#	22	580#	67	880#	33	580#	22	17000#	15
....PINNULARIA	*	0	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....NITZSCHIA	150	11	--	-	680#	25	1500#	53	62000#	54
...SURIRELLACEAE										
....SURIRELLA	230#	16	--	-	210	8	360	14	11000	10

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON ANALYSES

MAR. 9, 1976
1430 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_	_COMMON__NAME_
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
E	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

APR. 20, 1976
1220 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....GYROSIGMA	
E	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

JUNE 3, 1976
1230 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JUNE 25, 1976
0830 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
E	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
O	....CYMBELLA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
E	....LYNGBYA	
O	....OSCILLATORIA	

AUG. 1, 1976
1300 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
O	....CLADOPHORA	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....GYROSIGMA	
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....LYNGBYA	
	...RIVULARIACEAE	
E	....CALOTHRIX	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES ANALYSES

DATE	APR 20,76	JUN 3,76
TIME	1220	1230
TOTAL COUNT	343	45
DIVERSITY: PHYLUM	0.0	0.2
.CLASS	0.1	1.1
..ORDER	2.0	2.6
...FAMILY	2.2	2.7
....GENUS	2.2	2.7
....GENUS-INSECTA	2.1	2.6

ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.ARACHNOIDEA		
..HYDRACARINA		
...UNKNOWN FAMILY		
....UNKNOWN GENUS	4	17
.INSECTA		
..COLEOPTERA		
...DRYOPIDAE		
....HELICHUS	5	--
...ELMIDAE		
....OPTIOSERVUS	16	1
...HYDROPHILIDAE		
....HELOPHORUS	--	1
..DIPTERA		
...CHIRONOMIDAE		
....EUKIEFFERIELLA	5	--
....PENTANEURA	1	--
...TIPULIDAE		
....ERIOCERA	--	2
....TIPULA	7	--
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	129	2
..HEMIPTERA		
...GERRIDAE		
....GERRIS	--	4
..ODONATA		
...GOMPHIDAE		
....OPHIOGOMPHUS	2	3
..PLECOPTERA		
...PERLODIDAE		
....ISOPERLA	42	4
..TRICHOPTERA		
...HYDROPSYCHIDAE		
....HYDROPSYCHE	125	10
...LIMNEPHILIDAE		
....HESPEROPHYLAX	6	--
MOLLUSCA (MOLLUSCS)		
.GASTROPODA		
..BASOMMATOPHORA		
...LYMNAEIDAE		
....LYMNAEA	--	1
..UNKNOWN ORDER		
...UNKNOWN FAMILY		
....UNKNOWN GENUS	1	--

09216570 GAP CREEK ABOVE BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°11'56", long 109°02'59", in SE¼NW¼NE¼ sec.18, T.14 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, at bridge on county road, 100 ft (30 m) upstream from Beans Spring Creek, and 11.7 mi (18.7 km) southeast of South Baxter.

DRAINAGE AREA.--22.0 mi³ (57.0 km²).

PERIOD OF RECORD.--December 1975 to May 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
DEC										
16...	1315	.60	--	--	.0	--	--	--	--	--
JAN										
21...	1045	.46	750	--	.0	10	--	--	--	--
MAR										
25...	1500	3.0	1350	--	.0	--	--	--	--	--
APR										
01...	1000	2.0	2050	8.0	1.0	--	12.0	--	--	--
06...	1315	1.5	1640	8.2	2.5	50	12.4	3.0	770	540
09...	1500	1.8	2200	--	11.0	40	--	--	--	--
20...	1020	.45	3450	--	5.0	10	--	--	--	--
MAY										
12...	1445	3.5	580	--	15.0	650	--	--	--	--
13...	1130	1.0	4600	--	11.0	15	--	--	--	--

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
DEC										
16...	--	--	--	--	--	--	--	--	--	--
JAN										
21...	--	--	--	--	--	--	--	--	--	--
MAR										
25...	--	--	--	--	--	--	--	--	--	--
APR										
01...	--	--	--	--	--	--	--	--	--	--
06...	110	120	100	1.6	8.9	279	0	229	710	26
09...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
MAY										
12...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
DEC									
16...	--	--	--	--	--	--	--	--	--
JAN									
21...	--	--	--	--	--	--	--	--	--
MAR									
25...	--	--	--	--	--	--	--	--	--
APR									
01...	--	--	--	--	--	--	--	--	--
06...	.3	7.5	1220	1.66	4.94	.00	.02	.88	.90
09...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
MAY									
12...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
DEC									
16...	--	--	--	--	--	--	112	.18	--
JAN									
21...	--	--	--	--	--	--	35	.04	--
MAR									
25...	--	--	--	--	--	--	--	--	--
APR									
01...	--	--	--	--	720	9.2	155	.84	80
06...	.90	.12	240	80	--	--	26	.11	86
09...	--	--	--	--	--	--	65	.32	93
20...	--	--	--	--	--	--	18	.02	76
MAY									
12...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	30	.08	64

09216570 GAP CREEK ABOVE BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	APR 1.76
TIME	1000
TOTAL CELLS/ML	720
DIVERSITY: DIVISION	1.0
.CLASS	1.0
..ORDER	1.4
...FAMILY	2.0
....GENUS	2.0

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...FRAGILARIACEAE		
....ASTERIONELLA	*	0
...NAVICULACEAE		
....NAVICULA	100	15
...NITZSCHIACEAE		
....NITZSCHIA	170#	24
...SURIRELLACEAE		
....SURIRELLA	17	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	68	10
..OSCILLATORIALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	340#	48
...RIVULARIACEAE		
....RAPHIDIOPSIS	17	3

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON ANALYSES

APR. 1, 1976
1000 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME______
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
	...EUNOTIACEAE	
O	....ACTINELLA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
E	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216572 BEANS SPRING CREEK NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°09'43", long 109°04'29", in SE¼NE¼SW¼ sec.25, T.14 N., R.104 W., Sweetwater County, Hydrologic Unit 14040105, at culvert on county road, 1.4 mi (2.3 km) upstream from Little Basin Creek, 3.5 mi (5.6 km) upstream from mouth, and 14.0 mi (22.5 km) south of South Baxter.

DRAINAGE AREA.--4.92 mi^2 (12.7 km^2).

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
NOV							
05...	1120	A.20	--	--	.0	--	--
APR							
20...	1045	.25	845	7.9	4.0	2	9.8
MAY							
13...	1100	.10	1300	--	11.0	3	--
JUN							
07...	1700	.01	1050	8.3	18.0	--	6.7

A Daily mean discharge.

DATE	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M
NOV							
05...	--	--	9	.00	--	--	--
APR							
20...	5400	1.7	6	.00	50	--	--
MAY							
13...	--	--	25	.01	25	--	--
JUN							
07...	2400	3.3	--	--	--	48.8	63.0

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
PHYTOPLANKTON ANALYSES

	APR 20,76	JUN 7,76
DATE	APR 20,76	JUN 7,76
TIME	1045	1700
TOTAL CELLS/ML	5400	2400
DIVERSITY: DIVISION	0.2	0.0
.CLASS	0.2	0.0
..ORDER	0.2	0.0
...FAMILY	0.3	0.6
....GENUS	0.3	0.6

ORGANISM	CELLS /ML	PERCENT	CELLS /ML	PERCENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS	*	0	--	-
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..PENNALES				
...ACHNANTHACEAE				
....RHOICOSPHENIA	--	-	81	4
...CYMBELLACEAE				
....CYMBELLA	*	0	--	-
...FRAGILARIACEAE				
....FRAGILARIA	40	1	--	-
...NAVICULACEAE				
....CALONEIS	--	-	81	4
....NAVICULA	40	1	81	4
....PINNULARIA	*	0	--	-
...NITZSCHIACEAE				
....NITZSCHIA	40	1	2100#	90
CYANOPHYTA (BLUE-GREEN ALGAE)				
.MYXOPHYCEAE				
..OSCILLATORIALES				
...OSCILLATORIACEAE				
....OSCILLATORIA	5200#	97	--	-
PYRRHOPHYTA (FIRE ALGAE)				
.DINOPHYCEAE				
..GYMNODINIALES				
...GYMNODINIACEAE				
....GYMNODINIUM	*	0	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09216572 BEANS SPRING CREEK NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

APR. 20. 1976
1045 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
E	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
E	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
	..HETEROTRICHALES	
	...TRIBONEMATACEAE	
O	....TRIBONEMA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....LYNGBYA	
O	....OSCILLATORIA	
	...RIVULARIACEAE	
O	....RAPHIDIOPSIS	

JUNE 7. 1976
1700 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTHRICHALES	
	...CHAETOPHORACEAE	
E	....CHAETOPHORA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....TRACHELOMONAS	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING. 200-X MICROSCOPE

09216574 BEANS SPRING CREEK AT MOUTH, NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°11'57", long 109°03'02", in SE¼NW¼NE¼ sec.18, T.14 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, 100 ft (30 m) upstream from bridge on county road, 150 ft (46 m) upstream from mouth, and 11.7 mi (18.7 km) southeast of South Baxter.

DRAINAGE AREA.--13.1 mi² (33.9 km²).

PERIOD OF RECORD.--February to August 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
NOV											
11...	1120	E.25	1400	8.2	.0	--	--	--	--	--	--
FEB											
11...	1100	.36	670	8.0	1.0	40	--	--	--	--	--
MAR											
09...	1600	.45	655	8.5	1.0	100	11.1	--	350	120	81
25...	1500	E1.0	740	--	1.5	--	--	--	--	--	--
APR											
01...	0900	2.0	665	8.5	1.5	--	12.1	--	--	--	--
06...	1230	E2.0	860	8.4	1.0	140	12.4	3.0	440	160	84
09...	1500	3.0	940	--	8.0	280	--	--	--	--	--
20...	1030	.45	575	--	5.0	60	--	--	--	--	--
MAY											
13...	1120	E.25	920	--	11.0	40	--	--	--	--	--
JUN											
06...	1500	E.30	730	8.6	17.0	40	91.0	.8	--	--	--
07...	1710	E.60	740	--	17.0	20	--	--	--	--	--
JUL											
12...	1730	E.28	580	--	19.0	2	--	--	--	--	--
AUG											
14...	1215	E.90	620	8.0	16.0	2	--	--	--	--	--

E Estimate.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
NOV											
11...	--	--	--	--	--	--	--	--	--	--	--
FEB											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	35	17	.4	3.5	275	0	226	140	12	.5	10
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	56	31	.6	5.9	336	0	276	200	16	.3	13
09...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
NOV											
11...	--	--	--	--	--	--	--	--	--	--	--
FEB											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	--	436	.59	.53	--	.24	.23	.02	.09	3.5	3.5
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	--	572	.78	3.09	--	.09	--	.02	--	1.3	1.3
09...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	470	--	--	--	64	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
14...	--	--	--	--	--	--	--	--	--	--	--

09216574 BEANS SPRING CREEK AT MOUTH, NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOL-VED-PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL PHYTO-PLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV										
11...	--	--	--	--	--	310	--	--	--	--
FEB										
11...	--	--	--	--	--	--	.0	161	.16	--
MAR										
09...	3.7	.42	.02	120	20	660	2.7	308	.37	97
25...	--	--	--	--	--	--	--	--	--	--
APR										
01...	--	--	--	--	--	550	12	912	4.9	84
06...	1.4	1.1	--	120	120	--	--	486	2.6	78
09...	--	--	--	--	--	--	--	922	7.5	83
20...	--	--	--	--	--	--	--	132	.16	91
MAY										
13...	--	--	--	--	--	--	--	151	.10	82
JUN										
06...	--	--	--	--	--	1000	5.2	92	.07	86
07...	--	--	--	--	--	--	--	57	.09	78
JUL										
12...	--	--	--	--	--	--	--	20	.02	76
AUG										
14...	--	--	--	--	--	--	--	25	.06	70

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
JUN									
04...	1500	7.9	5.7	3.9	3.1	3.1	2.4	.14	1.9

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
FEB							
11...	1100	.36	1.0	2	31	45	64

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
FEB						
11...	71	75	79	87	95	100

09216574 BEANS SPRING CREEK AT MOUTH, NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	NOV 5,75		MAR 9,76		APR 1,76		JUN 6,76	
TIME	1120		1600		0900		1500	
TOTAL CELLS/ML	320		660		550		1000	
DIVERSITY: DIVISION	0.6		0.3		0.0		0.0	
.CLASS	0.6		0.3		0.0		0.0	
..ORDER	0.6		0.3		0.0		0.0	
...FAMILY	2.2		1.6		0.5		2.1	
....GENUS	2.4		1.8		0.5		2.3	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...OOCYSTACEAE								
....ANKISTRODESMUS	9	3	35	6	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	9	3	--	-	--	-	--	-
....MELOSIRA	*	0	--	-	--	-	--	-
..PENNALES								
...ACHNANTHACEAE								
....ACHNANTHES	28	9	--	-	--	-	21	3
....RHOICOSPHENIA	--	-	--	-	61	12	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	--	-	41	5
....SYNEDRA	9	3	--	-	*	0	120	13
...GOMPHONEMATACEAE								
....GOMPHONEMA	9	3	--	-	*	0	21	3
...NAVICULACEAE								
....GYROSIGMA	--	-	35	6	--	-	--	-
....NAVICULA	140#	45	350#	53	490#	89	330#	33
....NEIDIUM	9	3	--	-	--	-	--	-
...NITZSCHIACEAE								
....NITZSCHIA	75#	24	140#	22	--	-	170#	17
...SURIRELLACEAE								
....CYMATOPLEURA	--	-	*	0	--	-	--	-
....SURIRELLA	--	-	100#	16	*	0	330#	33
CYANOPHYTA (BLUE-GREEN ALGAE)								
.MYXOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	28	9	--	-	--	-	--	-
..OSCILLATORIALES								
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	*	0	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON ANALYSES
NOV. 5, 1975
1120 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
E	....CHAETOPHORA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....HANTZSCHIA	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216574 BEANS SPRING CREEK AT MOUTH, NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

MAR. 9, 1976
1600 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
E	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....EUGLENA	

APR. 1, 1976
0900 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
E	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	

JUNE 6, 1976
1500 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
E	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
E	....SURIRELLA	
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
	..HETEROTRICHALES	
	...TRIBONEMATACEAE	
O	....TRIBONEMA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...SCYTONEMATACEAE	
O	....PLECTONEMA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216574 BEANS SPRING CREEK AT MOUTH, NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATE ANALYSES

DATE	NOV 5.75	JUN 6.76
TIME	1120	1500
TOTAL COUNT	83	101
DIVERSITY: PHYLUM	0.9	0.0
.CLASS	1.8	0.0
..ORDER	2.6	2.0
...FAMILY	2.9	2.6
....GENUS	3.1	2.5
....GENUS-INSECTA	3.2	2.5

ORGANISM	COUNT	COUNT
ARTHROPODA (ARTHROPODS)		
.ARACHNOIDEA		
..HYDRACARINA		
...UNKNOWN FAMILY		
....UNKNOWN GENUS	13	--
.CRUSTACEA		
..AMPHIPODA		
...GAMMARIDAE		
....CRANGONYX	7	--
.INSECTA		
..COLEOPTERA		
...DYTISCIDAE		
....AGABUS	--	2
....CELINA	1	--
....HYDROPORUS	1	--
....LACCOPHILUS	--	1
....OREODYTES	--	3
...ELMIDAE		
....HETERLIMNIUS	1	--
....OPTIOSERVUS	--	2
...HALIPLIDAE		
....BRYCHIUS	1	--
...HYDROPHILIDAE		
....HELOPHORUS	--	1
....LACCOBIUS	--	1
..DIPTERA		
...CHIRONOMIDAE		
....PENTANEURA	6	--
....STICTOCHIRONOMUS	3	--
...STRATIOMYIIDAE		
....EUPARYPHUS	--	1
...TIPULIDAE		
....ERIOCERA	--	3
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	1	25
..HEMIPTERA		
...CORIXIDAE		
....TRICHOCORIXA	1	--
...MACROVELIIDAE		
....MACROVELIA	7	--
..PLECOPTERA		
...PERLODIDAE		
....ISOPERLA	--	41
..TRICHOPTERA		
...BRACHYCENTRIDAE		
....BRACHYCENTRUS	3	8
...HYDROPSYCHIDAE		
....HYDROPSYCHE	1	1
...LIMNEPHILIDAE		
....LIMNEPHILUS	7	--
....HESPEROPHYLAX	--	12
..DIPTERA		
...CHIRONOMIDAE		
....PSECTROCLADIUS	1	--
MOLLUSCA (MOLLUSCS)		
.GASTROPODA		
..BASOMMATOPHORA		
...LYMNAEIDAE		
....LYMNAEA	29	--

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°12'25", long 109°03'09", in NW¼NW¼SE¼ sec.7, T.14 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on right bank 0.1 mi (0.2 km) upstream from bridge on county road, 0.5 mi (0.8 km) south of Titsworth Springs, 0.7 mi (1.1 km) downstream from Beans Spring Creek, 12 mi (19 km) south of South Baxter, and 28 mi (45 km) south of Rock Springs.

DRAINAGE AREA.--35.9 mi^3 (93.0 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,080 ft (2,160 m), from topographic map.

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 227 ft^3/s (6.43 m^3/s) Aug. 2, gage height, 4.57 ft (1.393 m), from rating curve extended above 15 ft^3/s (0.42 m^3/s) on basis of slope-area measurement of peak flow; maximum gage height, 6.25 ft (1.905 m) Aug. 17 (backwater from roadfill); minimum daily discharge, 0.28 ft^3/s (0.008 m^3/s) on several days in September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.66	.66	.52	.50	1.3	9.2	2.6	.88	.57	.97	.34
2	.50	.57	.71	.50	.44	1.2	15	2.5	.88	.60	6.8	.28
3	.50	.57	.71	.48	.47	1.1	11	2.2	.93	.66	36	.28
4	.50	.56	.76	.46	.50	1.1	8.6	2.2	.76	.60	1.9	.28
5	.50	.62	.71	.44	.60	1.0	7.1	2.0	.66	.60	.60	.28
6	.65	.66	.66	.43	.57	.90	4.5	2.0	.66	.66	.41	.31
7	.58	.71	.66	.41	.58	.80	3.2	2.6	.66	.54	.38	.38
8	.54	.82	.71	.42	.60	.76	5.2	3.3	.66	.44	.31	.38
9	.50	.90	.74	.39	.60	.72	5.4	3.3	.60	.44	.34	.38
10	.50	.95	.75	.38	.66	.76	4.1	2.8	.60	.41	.34	.31
11	.50	.97	.78	.38	.60	.85	4.2	1.8	.66	.47	.34	.28
12	.80	.97	.85	.38	.62	.99	4.3	1.2	.76	.50	.32	.28
13	.70	1.0	.83	.38	.60	1.2	3.5	1.1	.82	.54	.34	.28
14	.62	1.1	.78	.38	.60	1.1	2.8	1.0	1.2	.54	.35	.38
15	.55	1.1	.76	.38	.60	1.2	3.1	1.1	1.1	.54	.36	.28
16	.55	1.1	.76	.38	.57	1.3	2.8	1.2	.76	.54	.36	.28
17	.55	.80	.71	.38	.57	1.3	2.8	1.2	.88	.57	.41	.28
18	.52	.70	.69	.38	.54	1.5	2.8	1.1	1.0	.82	.44	.28
19	.50	.64	.66	.38	.60	1.8	2.7	1.0	.88	.82	.38	.28
20	.52	.64	.62	.41	.54	1.6	3.0	1.0	.71	.60	.38	.28
21	.54	.70	.58	.46	.54	1.5	3.3	1.1	.54	.54	.38	.28
22	.56	.80	.58	.49	.57	1.6	3.2	2.4	.54	.47	.34	.31
23	.63	.80	.57	.45	.57	1.8	3.1	2.1	.76	.44	.38	.31
24	.62	.71	.55	.41	.54	2.0	2.6	1.9	.66	.44	.34	.28
25	.60	.54	.53	.44	.57	2.5	2.5	1.8	.50	.44	.34	.28
26	.66	.60	.52	.48	.66	2.9	2.6	1.4	.50	.44	.38	.31
27	.75	.57	.53	.50	.71	2.7	3.3	.98	.50	.34	.44	.34
28	.95	.58	.55	.48	.76	2.5	3.8	1.1	.50	.34	.38	.31
29	1.0	.57	.57	.47	1.2	2.3	2.8	1.1	.50	.38	.38	.28
30	.82	.60	.57	.47	---	3.3	2.9	1.1	.57	.44	.34	.28
31	.71	---	.55	.44	---	5.8	---	1.0	---	.44	.34	---
TOTAL	18.92	22.51	20.61	13.35	17.48	51.38	135.4	53.18	21.63	16.17	55.77	9.10
MEAN	.61	.75	.66	.43	.60	1.66	4.51	1.72	.72	.52	1.80	.30
MAX	1.0	1.1	.85	.52	1.2	5.8	15	3.3	1.2	.82	36	.38
MIN	.50	.54	.52	.38	.44	.72	2.5	.98	.50	.34	.31	.28
AC-FT	38	45	41	26	35	102	269	105	43	32	111	18

WTR YR 1976 TOTAL 435.50 MEAN 1.19 MAX 36 MIN .28 AC-FT 864

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: October 1975 to September 1976 (discontinued).

INSTRUMENTATION.--Automatic pumping sediment sampler July to September 1976.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 13,200 mg/L Apr. 2; minimum daily mean, 16 mg/L Sept. 28-30.
SEDIMENT LOADS: Maximum daily, 2,550 tons (2,310 tonnes) Aug. 3; minimum daily, 0.01 ton (0.01 tonne) Sept. 28-30.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT												
22...	1300	A.56	755	--	7.0	5	--	--	--	--	--	--
NOV												
05...	1045	A.62	640	8.4	.0	--	--	--	--	--	--	--
05...	1310	A.62	740	--	2.5	15	--	--	--	--	--	--
17...	1215	A.80	940	8.2	1.0	22	11.2	--	480	200	96	58
19...	1200	A.64	800	8.4	.0	20	--	--	460	160	98	52
28...	1200	A.58	720	--	.5	--	--	--	--	--	--	--
DEC												
06...	1040	.60	510	--	.5	10	--	--	--		--	--
16...	1315	.66	900	8.7	.0	25	--	--	--	--	--	--
17...	1230	.71	950	8.1	.0	15	11.6	1.4	460	180	100	52
JAN												
19...	1200	.38	750	8.0	.0	25	11.7	3.3	370	120	90	36
21...	1045	.46	--	--	.0	--	--	--	--	--	--	--
FEB												
11...	1200	.60	690	8.0	2.0	40	--	1.2	360	120	86	35
14...	1315	.57	710	--	.5	--	--	--	--	--	--	--
MAR												
05...	1205	A1.0	740	--	.0	60	--	--	--	--	--	--
09...	1100	A.72	780	8.2	1.0	65	11.2	--	400	150	87	44
20...	1200	A1.6	1010	7.9	.0	96	11.0	7.3	450	230	80	60
23...	1700	A1.8	1280	--	1.0	--	--	--	--	--	--	--
25...	1430	A2.5	1020	--	1.5	300	--	--	--	--	--	--
APR												
01...	1015	4.4	1020	8.3	.5	--	12.8	--	--	--	--	--
02...	1415	13	1320	--	2.5	800	--	--	580	360	88	87
06...	1015	3.4	1020	8.3	.5	120	12.8	2.8	540	290	91	76
07...	1525	3.8	920	--	5.5	--	--	--	--	--	--	--
09...	1030	4.1	1600	8.2	6.0	110	--	3.2	660	400	100	100
09...	1115	3.8	1500	--	6.0	70	--	--	--	--	--	--
09...	1530	6.4	1600	--	10.0	220	--	--	--	--	--	--
13...	1815	3.2	--	--	--	--	--	--	--	--	--	--
20...	0940	2.2	2020	--	3.0	45	--	2.3	--	--	--	--
21...	0900	2.8	1650	8.5	5.0	40	11.0	--	790	460	120	120
MAY												
07...	0910	2.9	1350	--	5.0	140	--	--	--	--	--	--
12...	1330	1.2	1800	--	13.0	25	--	--	--	--	--	--
20...	0810	1.0	1000	--	8.5	50	--	--	--	--	--	--
25...	1330	1.7	1700	8.3	14.0	50	9.0	2.3	790	430	120	120
25...	1715	1.7	1600	--	15.0	40	--	--	--	--	--	--
JUN												
03...	1500	.93	800	8.4	16.5	60	8.3	1.0	--	--	--	--
04...	1345	.71	270	--	20.0	15	--	--	--	--	--	--
06...	1200	.66	--	--	17.0	--	--	--	--	--	--	--
08...	1100	.66	700	--	14.0	25	--	--	--	--	--	--
22...	1130	.50	680	8.3	15.0	4	8.7	3.4	330	97	69	38
25...	0820	.60	720	--	6.0	15	--	--	--	--	--	--
25...	1000	.54	720	8.3	12.0	220	7.2	1.4	--	--	--	--
JUL												
07...	1440	.47	600	--	25.0	4	--	--	--	--	--	--
10...	1745	.41	600	8.6	25.0	3	7.1	--	290	95	59	9.0
12...	1615	.50	650	--	20.0	3	--	--	--	--	--	--
20...	1230	.60	790	8.3	22.0	9	9.3	3.3	400	170	89	11
22...	1100	.44	780	--	16.0	1	--	--	--	--	--	--
27...	0850	.41	640	--	10.0	5	--	--	--	--	--	--
AUG												
01...	1030	.60	570	8.5	16.0	--	7.7	1.0	320	120	74	8.8
03...	1115	14	1180	--	12.5	--	--	--	--	--	--	--
05...	0900	.71	--	--	17.0	340	--	--	--	--	--	--
05...	1145	.66	--	--	16.0	--	--	--	--	--	--	--
12...	1500	A.32	640	--	20.5	4	--	--	--	--	--	--
17...	1100	A.41	620	8.2	12.0	8	8.8	3.4	300	99	67	9.4
31...	0915	.34	620	--	9.0	1	--	--	--	--	--	--
SEP												
09...	1010	.38	630	--	8.0	1	--	--	--	--	--	--
15...	1515	.28	650	8.2	16.0	7	8.2	2.5	300	99	69	9.3
22...	1105	.34	580	--	14.0	4	--	--	--	--	--	--

A Daily mean discharge.

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT											
22...	--	--	--	--	--	--	--	--	--	--	--
NOV											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
17...	53	1.1	5.4	339	0	278	250	23	.5	12	665
19...	30	.6	4.6	362	0	297	200	19	.4	13	596
28...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
17...	40	.8	4.8	352	0	289	210	19	.5	13	613
JAN											
19...	26	.6	4.3	304	0	249	170	18	.5	11	506
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
11...	18	.4	3.5	293	0	240	150	14	.5	11	463
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
05...	--	--	--	--	--	--	--	--	--	--	--
09...	25	.5	4.5	303	0	249	190	16	.6	12	529
20...	56	1.2	9.0	265	0	217	320	17	.4	8.7	682
23...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
02...	80	1.4	8.3	261	--	214	500	16	.3	7.7	916
06...	55	1.0	7.1	305	0	250	360	17	.3	11	768
07...	--	--	--	--	--	--	--	--	--	--	--
09...	76	1.3	8.2	317	0	260	530	20	.4	12	1000
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
21...	110	1.7	6.2	379	14	334	610	27	.4	11	1210
MAY											
07...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
25...	100	1.5	5.8	444	0	364	600	25	.5	14	1200
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
03...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
22...	23	.6	3.6	283	0	232	130	13	.4	11	428
25...	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
JUN									
25...	--	--	--	--	--	--	--	--	--
JUL									
07...	--	--	--	--	--	--	--	--	--
10...	18	.5	4.0	222	6	192	130	12	.4
12...	--	--	--	--	--	--	--	--	--
20...	28	.6	4.1	290	0	238	180	20	.5
22...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
AUG									
01...	18	.4	3.8	247	0	203	120	14	.4
03...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
17...	16	.4	3.9	244	0	200	120	13	.4
31...	--	--	--	--	--	--	--	--	--
SEP									
09...	--	--	--	--	--	--	--	--	--
15...	18	.5	4.0	240	0	197	140	13	.4
22...	--	--	--	--	--	--	--	--	--

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
OCT											
22...	--	--	--	--	--	--	--	--	--	--	--
NOV											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
17...	.90	1.44	.05	--	.00	--	.59	--	.59	--	.64
19...	.81	1.03	.05	--	.02	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
17...	.83	1.18	.15	--	.02	--	.40	--	.42	--	.57
JAN											
19...	.69	.52	.21	--	.09	--	1.0	--	1.1	--	1.3
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
11...	.63	.75	.21	.20	.05	--	.44	--	.49	--	.70
14...	--	--	--	--	--	--	--	--	--	--	--
MAR											
05...	--	--	--	--	--	--	--	--	--	--	--
09...	.72	1.03	.19	.18	.03	.08	1.2	--	1.2	--	1.4
20...	.93	2.95	.15	--	.04	--	1.6	--	1.6	--	1.8
23...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
02...	1.25	32.2	--	.01	--	--	--	--	--	--	--
06...	1.04	7.05	.06	--	.02	--	1.2	--	1.2	--	1.3
07...	--	--	--	--	--	--	--	--	--	--	--
09...	1.36	11.1	.04	.02	.04	.03	1.8	1.1	1.8	1.1	1.8
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
21...	1.65	9.15	.03	.03	.03	.04	.87	.58	.90	.62	.93
MAY											
07...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
25...	1.63	5.51	.03	--	.01	--	.74	--	.75	--	.78
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
03...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
22...	.58	.58	.09	--	.03	--	.42	--	.45	--	.54
25...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)
JUN										
25...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
10...	9.0	382	.52	.42	--	.00	--	.01	--	--
12...	--	--	--	--	--	--	--	--	--	--
20...	11	520	.71	.84	.00	--	.00	--	.24	--
22...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
AUG										
01...	8.8	394	.54	.64	.02	.01	.00	.05	.29	.39
03...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
17...	9.4	382	.52	.42	.08	--	.02	--	.50	--
31...	--	--	--	--	--	--	--	--	--	--
SEP										
09...	--	--	--	--	--	--	--	--	--	--
15...	9.3	402	.55	.30	.03	--	.12	--	.35	--
22...	--	--	--	--	--	--	--	--	--	--

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M
OCT											
22...	--	--	--	--	--	--	22	.03	--	--	--
NOV											
05...	--	--	--	--	520	--	99	.17	--	--	--
05...	--	--	--	--	--	--	52	.09	--	--	--
17...	.10	--	--	--	--	--	113	.24	--	--	--
19...	.07	--	--	--	--	--	92	.16	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	26	.04	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
17...	.09	--	--	--	--	--	98	.19	--	--	--
JAN											
19...	.19	--	--	--	--	--	77	.08	--	--	--
21...	--	--	--	--	--	--	35	.04	--	--	--
FEB											
11...	.12	.01	--	--	--	.0	152	.25	--	--	--
14...	--	--	--	--	--	--	294	.45	--	--	--
MAR											
05...	--	--	--	--	--	--	238	.64	--	--	--
09...	.26	.01	--	--	710	.5	183	.36	97	--	--
20...	.85	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	1860	9.0	45	--	--
25...	--	--	--	--	--	--	1760	12	62	--	--
APR											
01...	--	--	--	--	2700	7.1	--	--	--	--	--
02...	--	--	--	--	--	--	13200	463	34	--	--
06...	.34	--	--	--	--	--	516	4.7	57	--	--
07...	--	--	--	--	--	--	1010	10	66	--	--
09...	.50	.00	--	--	--	--	601	6.7	55	--	--
09...	--	--	--	--	--	--	393	4.0	67	--	--
09...	--	--	--	--	--	--	818	14	72	--	--
13...	--	--	--	--	--	--	532	4.6	98	--	--
20...	--	--	--	--	--	--	118	.70	82	--	--
21...	.20	.04	.01	.03	--	--	117	.88	78	--	--
MAY											
07...	--	--	--	--	--	--	389	3.0	94	--	--
12...	--	--	--	--	--	--	98	.32	86	--	--
20...	--	--	--	--	--	--	162	.44	93	--	--
25...	.14	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	131	.60	98	--	--
JUN											
03...	--	--	--	--	1500	4.5	82	.21	95	24.5	44.7
04...	--	--	--	--	--	--	76	.15	85	--	--
06...	--	--	--	--	--	--	79	.14	96	--	--
08...	--	--	--	--	--	--	106	.19	86	--	--
22...	.14	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	72	.12	68	--	--

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)
JUN										
25...	--	--	--	--	--	--	--	11	5.6	272
JUL										
07...	--	--	--	--	--	--	--	--	--	24
10...	--	--	--	--	.03	.03	.09	--	--	25
12...	--	--	--	--	--	--	--	--	--	33
20...	.24	--	.24	.07	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	18
27...	--	--	--	--	--	--	--	--	--	87
AUG										
01...	.29	.44	.31	.05	.02	.01	.03	4600	10	47
03...	--	--	--	--	--	--	--	--	--	8530
05...	--	--	--	--	--	--	--	--	--	406
05...	--	--	--	--	--	--	--	--	--	400
12...	--	--	--	--	--	--	--	--	--	36
17...	.52	--	.60	.06	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	35
SEP										
09...	--	--	--	--	--	--	--	--	--	50
15...	.47	--	.50	.05	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	22

GREEN RIVER BASIN

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
JUN										
25...	.40	95	--	--	--	--	--	--	--	--
JUL										
07...	.03	75	--	--	--	--	--	--	--	--
10...	.03	73	--	--	--	--	--	--	--	--
12...	.04	70	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
22...	.02	78	--	--	--	--	--	--	--	--
27...	.10	87	--	--	--	--	--	--	--	--
AUG										
01...	.08	62	57.8	64.9	500	3021	1.40	.468	.374	.063
03...	322	97	--	--	--	--	--	--	--	--
05...	.78	94	--	--	--	--	--	--	--	--
05...	.71	97	--	--	--	--	--	--	--	--
12...	.03	62	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
31...	.03	--	--	--	--	--	--	--	--	--
SEP										
09...	.05	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	.02	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
NOV											
17...	1215	--	--	--	--	--	--	130	--	--	--
19...	1200	--	--	--	--	--	--	120	--	--	--
DEC											
17...	1230	--	--	--	--	--	--	120	--	--	--
JAN											
19...	1200	630	0	2	1	0	0	90	<10	2	0
FEB											
11...	1200	--	--	--	--	--	--	90	--	--	--
MAR											
09...	1100	--	--	--	--	--	--	110	--	--	--
20...	1200	--	--	--	--	--	--	180	--	--	--
APR											
02...	1415	--	--	--	--	--	--	200	--	--	--
06...	1015	--	--	--	--	--	--	160	--	--	--
09...	1030	3700	0	11	1	0	0	150	20	1	0
21...	0900	1200	0	2	1	10	0	180	<10	2	10
MAY											
25...	1330	--	--	--	--	--	--	260	--	--	--
JUN											
22...	1130	--	--	--	--	--	--	110	--	--	--
JUL											
10...	1745	--	--	--	--	--	--	110	--	--	--
20...	1230	380	--	2	--	0	--	130	<10	--	0
AUG											
01...	1030	--	--	--	--	--	--	110	--	--	--
17...	1100	--	--	--	--	--	--	100	--	--	--
SEP											
15...	1515	--	--	--	--	--	--	90	--	--	--

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
NOV											
17...	--	--	--	--	50	--	--	--	--	--	--
19...	--	--	--	--	40	--	--	--	--	--	--
DEC											
17...	--	--	--	--	10	--	--	--	--	--	--
JAN											
19...	0	10	3	1900	10	<100	4	40	30	210	160
FEB											
11...	--	--	--	--	20	--	--	--	--	--	--
MAR											
09...	--	--	--	--	60	--	--	--	--	--	--
20...	--	--	--	--	60	--	--	--	--	--	--
APR											
02...	--	--	--	--	250	--	--	--	--	--	--
06...	--	--	--	--	60	--	--	--	--	--	--
09...	0	10	1	7300	60	150	1	70	60	340	90
21...	10	10	1	2300	30	<100	8	90	70	150	90
MAY											
25...	--	--	--	--	70	--	--	--	--	--	--
JUN											
22...	--	--	--	--	0	--	--	--	--	--	--
JUL											
10...	--	--	--	--	220	--	--	--	--	--	--
20...	--	10	--	700	60	<100	--	50	--	80	--
AUG											
01...	--	--	--	--	260	--	--	--	--	--	70
17...	--	--	--	--	40	--	--	--	--	--	--
SEP											
15...	--	--	--	--	30	--	--	--	--	--	--

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
DEC											
17...	--	--	--	--	--	--	--	--	--	--	--
JAN											
19...	.0	.0	5	5	<50	4	2	2	.6	30	10
FEB											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
09...	.0	.0	5	3	<50	4	1	1	.8	40	0
21...	.0	.0	4	3	<50	3	1	1	.5	10	0
MAY											
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
22...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	--	--	--	--	--	--	--	--	--	--	--
20...	.0	--	2	--	<50	--	1	--	--	20	--
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
SEP											
15...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
FEB								
11...	1200	.60	2.0	2	--	35	43	83
MAY								
07...	0910	2.9	5.0	10	5	13	24	51
JUL								
22...	1100	.44	16.0	10	23	47	53	67
27...	0850	.41	10.0	10	--	9	14	65

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
FEB							
11...	95	99	100	--	--	--	--
MAY							
07...	58	60	64	70	81	92	100
JUL							
22...	72	74	80	87	93	96	100
27...	90	93	94	97	99	100	--

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.50	22	.03	.66	50	.09	.66	40	.07
2	.50	22	.03	.57	50	.08	.71	40	.08
3	.50	22	.03	.57	50	.08	.71	30	.06
4	.50	22	.03	.56	50	.08	.76	30	.06
5	.50	22	.03	.62	52	.09	.71	30	.06
6	.65	22	.04	.66	55	.10	.66	26	.05
7	.58	22	.03	.71	60	.12	.66	26	.05
8	.54	22	.03	.82	70	.15	.71	30	.06
9	.50	22	.03	.90	80	.19	.74	35	.07
10	.50	22	.03	.95	90	.23	.75	40	.08
11	.50	22	.03	.97	100	.26	.78	45	.09
12	.80	25	.05	.97	100	.26	.85	50	.11
13	.70	30	.06	1.0	110	.30	.83	60	.13
14	.62	25	.04	1.1	115	.34	.78	70	.15
15	.55	22	.03	1.1	115	.34	.76	80	.16
16	.55	22	.03	1.1	115	.34	.76	90	.18
17	.55	22	.03	.80	113	.24	.71	98	.19
18	.52	22	.03	.70	100	.19	.69	95	.18
19	.50	22	.03	.64	92	.16	.66	95	.17
20	.52	22	.03	.64	92	.16	.62	95	.16
21	.54	22	.03	.70	90	.17	.58	95	.15
22	.56	22	.03	.80	80	.17	.58	95	.15
23	.63	25	.04	.80	80	.17	.57	90	.14
24	.62	25	.04	.71	70	.13	.55	90	.13
25	.60	25	.04	.54	70	.10	.53	90	.13
26	.66	30	.05	.60	60	.10	.52	90	.13
27	.75	35	.07	.57	60	.09	.53	90	.13
28	.95	40	.10	.58	50	.08	.55	85	.13
29	1.0	45	.12	.57	50	.08	.57	85	.13
30	.82	50	.11	.60	40	.06	.57	85	.13
31	.71	50	.10	---	---	---	.55	85	.13
TOTAL	18.92	---	1.40	22.51	---	4.95	20.61	---	3.64

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.52	85	.12	.50	40	.05	1.3	230	.81
2	.50	85	.11	.44	45	.05	1.2	230	.75
3	.48	80	.10	.47	50	.06	1.1	230	.68
4	.46	80	.10	.50	60	.08	1.1	240	.71
5	.44	80	.10	.60	70	.11	1.0	238	.64
6	.43	80	.09	.57	90	.14	.90	220	.53
7	.41	80	.09	.58	110	.17	.80	200	.43
8	.42	80	.09	.60	130	.21	.76	190	.39
9	.39	80	.08	.60	140	.23	.72	183	.36
10	.38	75	.08	.66	150	.27	.76	190	.39
11	.38	75	.08	.60	152	.25	.85	200	.46
12	.38	75	.08	.62	200	.33	.99	250	.67
13	.38	75	.08	.60	250	.41	1.2	300	.97
14	.38	75	.08	.60	294	.48	1.1	400	1.2
15	.38	75	.08	.60	250	.41	1.2	500	1.6
16	.38	75	.08	.57	200	.31	1.3	600	2.1
17	.38	75	.08	.57	150	.23	1.3	700	2.5
18	.38	75	.08	.54	100	.15	1.5	900	3.6
19	.38	77	.08	.60	90	.15	1.8	1100	5.3
20	.41	56	.06	.54	80	.12	1.6	1300	5.6
21	.46	35	.04	.54	80	.12	1.5	1500	6.1
22	.49	35	.05	.57	90	.14	1.6	1700	7.3
23	.45	35	.04	.57	90	.14	1.8	1860	9.0
24	.41	35	.04	.54	100	.15	2.0	1800	9.7
25	.44	35	.04	.57	110	.17	2.5	1760	12
26	.48	35	.05	.66	150	.27	2.9	2000	16
27	.50	35	.05	.71	180	.35	2.7	2000	15
28	.48	35	.05	.76	200	.41	2.5	2200	15
29	.47	35	.04	1.2	230	.75	2.3	2500	16
30	.47	35	.04	---	---	---	3.3	3500	31
31	.44	35	.04	---	---	---	5.8	5000	91
TOTAL	13.35	---	2.22	17.48	---	6.71	51.38	---	257.79

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	9.2	10000	248	2.6	220	1.5	.88	85	.20
2	15	13200	535	2.5	240	1.6	.88	85	.20
3	11	10000	297	2.2	260	1.5	.93	82	.21
4	8.6	6000	139	2.2	280	1.7	.76	76	.16
5	7.1	2000	38	2.0	300	1.6	.66	78	.14
6	4.5	516	6.3	2.0	350	1.9	.66	79	.14
7	3.2	1080	9.3	2.6	389	2.7	.66	92	.16
8	5.2	800	11	3.3	320	2.9	.66	106	.19
9	5.4	604	8.8	3.3	200	1.8	.60	105	.17
10	4.1	500	5.5	2.8	150	1.1	.60	105	.17
11	4.2	430	4.9	1.8	100	.49	.66	100	.18
12	4.3	400	4.6	1.2	98	.32	.76	95	.19
13	3.5	300	2.8	1.1	100	.30	.82	95	.21
14	2.8	230	1.7	1.0	100	.27	1.2	100	.32
15	3.1	210	1.8	1.1	100	.30	1.1	95	.28
16	2.8	190	1.4	1.2	110	.36	.76	90	.18
17	2.8	170	1.3	1.2	110	.36	.88	95	.23
18	2.8	150	1.1	1.1	120	.36	1.0	100	.27
19	2.7	120	.87	1.0	140	.38	.88	95	.23
20	3.0	110	.90	1.0	162	.44	.71	90	.17
21	3.3	117	1.0	1.1	150	.45	.54	85	.12
22	3.2	120	1.0	2.4	150	.97	.54	85	.12
23	3.1	120	1.0	2.1	140	.79	.76	90	.18
24	2.6	100	.70	1.9	140	.72	.66	85	.15
25	2.5	100	.68	1.8	131	.64	.50	82	.11
26	2.6	100	.70	1.4	130	.49	.50	80	.11
27	3.3	120	1.1	.98	120	.32	.50	70	.09
28	3.8	200	2.1	1.1	110	.33	.50	60	.08
29	2.8	200	1.5	1.1	100	.30	.50	55	.07
30	2.9	220	1.7	1.1	95	.28	.57	50	.08
31	---	---	---	1.0	90	.24	---	---	---
TOTAL	135.4	---	1330.81	53.18	---	27.41	21.63	---	5.11

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.57	45	.07	.97	119	.39	.34	43	.04
2	.60	40	.06	6.8	209	5.2	.28	41	.03
3	.66	35	.06	36	12700	2550	.28	35	.03
4	.60	30	.05	1.9	2300	12	.28	43	.03
5	.60	30	.05	.60	500	.81	.28	40	.03
6	.66	25	.04	.41	204	.23	.31	49	.04
7	.54	24	.03	.38	145	.15	.38	43	.04
8	.44	24	.03	.31	121	.10	.38	40	.04
9	.44	25	.03	.34	89	.08	.38	43	.04
10	.41	25	.03	.34	52	.05	.31	62	.05
11	.47	30	.04	.34	41	.04	.28	46	.03
12	.50	33	.04	.32	37	.03	.28	46	.03
13	.54	33	.05	.34	37	.03	.28	45	.03
14	.54	33	.05	.35	37	.03	.38	45	.05
15	.54	33	.05	.36	37	.04	.28	34	.03
16	.54	33	.05	.36	37	.04	.28	53	.04
17	.57	32	.05	.41	36	.04	.28	55	.04
18	.82	32	.07	.44	36	.04	.28	59	.04
19	.82	32	.07	.38	36	.04	.28	106	.08
20	.60	31	.05	.38	36	.04	.28	90	.07
21	.54	31	.05	.38	36	.04	.28	40	.03
22	.47	31	.04	.34	36	.03	.31	32	.03
23	.44	59	.07	.38	36	.04	.31	21	.02
24	.44	61	.07	.34	36	.03	.28	21	.02
25	.44	49	.06	.34	36	.03	.28	23	.02
26	.44	80	.10	.38	36	.04	.31	19	.02
27	.34	47	.04	.44	35	.04	.34	17	.02
28	.34	46	.04	.38	35	.04	.31	16	.01
29	.38	34	.03	.38	35	.04	.28	16	.01
30	.44	45	.05	.34	35	.03	.28	16	.01
31	.44	23	.03	.34	35	.03	---	---	---
TOTAL	16.17	---	1.55	55.77	---	2569.77	9.10	---	1.00
YEAR	435.50		4212.36						

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	NOV 5.75	APR 1.76	JUN 3.76	JUN 26.76	AUG 1.76
TIME	1045	1015	1500	1000	1030
TOTAL CELLS/ML	530	2700	1500	11	4600
DIVERSITY: DIVISION	0.0	0.7	1.0	0.0	0.1
.CLASS	0.0	0.7	1.0	0.0	0.1
..ORDER	0.0	0.7	1.0	0.0	0.1
...FAMILY	2.0	1.0	2.1	2.1	0.9
....GENUS	2.1	1.0	2.1	2.1	1.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	16	2	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	28	2	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	18	4	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	18	4	28	2	16	2	0	2	--	-
...CYMBELLACEAE										
....CYMBELLA	18	4	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....SYNEDRA	--	-	28	2	--	-	2#	19	260	6
...GOMPHONEMATACEAE										
....GOMPHONEMA	36	7	--	-	16	2	0	3	65	2
...NAVICULACEAE										
....CALONEIS	--	-	--	-	*	0	--	-	--	-
....GYROSIGMA	--	-	--	-	--	-	--	-	*	0
....NAVICULA	200#	38	250	10	460#	31	3#	32	320	8
....PINNULARIA	--	-	--	-	--	-	--	-	65	2
...NITZSCHIACEAE										
....NITZSCHIA	200#	38	85	4	320#	22	3#	30	3800#	84
...SURIRELLACEAE										
....CYMATOPLEURA	--	-	28	2	--	-	--	-	--	-
....SURIRELLA	36	7	--	-	160	11	2#	17	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.MYXOPHYCEAE										
..OSCILLATORIALES										
...NOSTOCACEAE										
....ANABAENA	*	0	--	-	--	-	--	-	65	2
...OSCILLATORIACEAE										
....OSCILLATORIA	--	-	2200#	83	510#	35	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

MAR. 9, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

710 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		350	50
	...NITZSCHIACEAE			
D	....NITZSCHIA		210	30
	...SURIRELLACEAE			
	....SURIRELLA		71	10
	...ACHNANTHACEAE			
	....RHOICOSPHENIA		71	10

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
FAMILY 1.685
GENERA 1.685

09216576 GAP CREEK BELOW PEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

NOV. 5, 1975
1045 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
E	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
	..HETEROTRICHALES	
	...TRIBONEMATACEAE	
E	....TRIBONEMA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....LYNGBYA	

MAR. 9, 1976
1100 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME______
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....GYROSIGMA	
E	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
	..HETEROTRICHALES	
	...TRIBONEMATACEAE	
O	....TRIBONEMA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	CYANOPHYTA	BLUE-GREEN ALAGE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

APR. 1, 1976
1015 HOURS

IDENTIFICATION OF PERIPHYTON

```
  _ORGANISM__NAME_______________   _COMMON__NAME_______

  CHRYSOPHYTA
  .BACILLARIOPHYCEAE               DIATOMS
  ..PENNALES                       PENNATE
  ...ACHNANTHACEAE
O ....COCCONEIS
  ...NAVICULACEAE                  NAVICULOID
O ....GYROSIGMA
E ....NAVICULA
  ...NITZSCHIACEAE
O ....NITZSCHIA
  CYANOPHYTA                       BLUE-GREEN ALGAE
  .MYXOPHYCEAE
  ..OSCILLATORIALES                FILAMENTOUS
  ...NOSTOCACEAE
O ....ANABAENA
  ...OSCILLATORIACEAE
O ....OSCILLATORIA

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
      O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
      ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE
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JUNE 3, 1976
1500 HOURS

IDENTIFICATION OF PERIPHYTON

```
  _ORGANISM__NAME_______________   _COMMON__NAME_______

  CHRYSOPHYTA
  .BACILLARIOPHYCEAE               DIATOMS
  ..PENNALES                       PENNATE
  ...ACHNANTHACEAE
O ....ACHNANTHES
  ...CYMBELLACEAE
O ....CYMBELLA
  ...DIATOMACEAE
O ....DIATOMA
  ...GOMPHONEMATACEAE
O ....GOMPHONEMA
  ...NAVICULACEAE                  NAVICULOID
E ....NAVICULA
  ...NITZSCHIACEAE
O ....NITZSCHIA
  ...SURIRELLACEAE
O ....SURIRELLA
  CYANOPHYTA                       BLUE-GREEN ALGAE
  .MYXOPHYCEAE
  ..OSCILLATORIALES                FILAMENTOUS
  ...OSCILLATORIACEAE
O ....LYNGBYA

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
      O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
      SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
      ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE
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09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JUNE 26, 1976
1000 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
E	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
O	....CYMBELLA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
E	....LYNGBYA	

AUG. 1, 1976
1030 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
E	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....GYROSIGMA	
E	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	
	...RIVULARIACEAE	
E	....CALOTHRIX	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216576 GAP CREEK BELOW BEANS SPRING CREEK, NEAR SOUTH BAXTER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATE ANALYSES

DATE	NOV 5,75	JUN 3,76
TIME	1045	1500
TOTAL COUNT	282	118
DIVERSITY: PHYLUM	1.0	0.4
.CLASS	1.3	0.5
..ORDER	3.1	0.5
...FAMILY	3.5	0.5
....GENUS	3.8	0.5
....GENUS-INSECTA	3.4	0.0
ORGANISM	COUNT	COUNT
ANNELIDA		
.HIRUDINEA		
..RHYNCHOBDELLIDA		
...GLOSSIPHONIIDAE		
....HELOBDELLA	--	2
.OLIGOCHAETA		
..UNKNOWN ORDER		
...UNKNOWN FAMILY		
....UNKNOWN GENUS	35	3
ARTHROPODA (ARTHROPODS)		
.ARACHNOIDEA		
..HYDRACARINA		
...UNKNOWN FAMILY		
....UNKNOWN GENUS	13	--
.CRUSTACEA		
..AMPHIPODA		
...GAMMARIDAE		
....GAMMARUS	--	2
.INSECTA		
..COLEOPTERA		
...DRYOPIDAE		
....HELICHUS	3	--
...ELMIDAE		
....DUBIRAPHIA	6	--
....OPTIOSERVUS	19	--
...HALIPLIDAE		
....BRYCHIUS	1	--
...HYDROPHILIDAE		
....HELOPHORUS	1	--
..DIPTERA		
...CERATOPOGONIDAE		
....UNKNOWN GENUS	1	--
...CHIRONOMIDAE		
....CHIRONOMUS	3	--
....PENTANEURA	31	--
....PROCLADIUS	1	--
....RHEOTANYTARSUS	2	--
....STICTOCHIRONOMUS	2	--
...TABANIDAE		
....TABANUS	2	--
...TIPULIDAE		
....ERIOCERA	1	--
....TIPULA	1	1
..EPHEMEROPTERA		
...BAETIDAE		
....BAETIS	9	--
..HEMIPTERA		
...CORIXIDAE		
....TRICHOCORIXA	64	--
..MEGALOPTERANS		
...SIALIDAE		
....SIALIS	1	--
..ODONATA		
...COENAGRIONIDAE		
....ARGIA	1	--
..PLECOPTERA		
...PERLODIDAE		
....ARCYNOPTERYX	26	--
..TRICHOPTERA		
...BRACHYCENTRIDAE		
....BRACHYCENTRUS	11	--
...HYDROPSYCHIDAE		
....CHEUMATOPSYCHE	4	--
....HYDROPSYCHE	8	--
...LEPTOCERIDAE		
....LEPTOCELLA	1	--
...LIMNEPHILIDAE		
....LIMNEPHILUS	5	--
...PHRYGANEIDAE		
....PTILOSTOMIS	2	--
MOLLUSCA (MOLLUSCS)		
.BIVALVIA		
..NUCULOIDEA		
...SPHAERIIDAE		
....SPHAERIUM	23	--
.GASTROPODA		
..BASOMMATOPHORA		
...LYMNAEIDAE		
....LYMNAEA	--	110
...PHYSIDAE		
....PHYSA	4	--
..MESOGASTROPODA		
...HYDROBIIDAE		
....HYDROBIA	1	--

09216580 BIG FLAT DRAW NEAR ROCK SPRINGS, WY

LOCATION.--Lat 41°18'57", long 108°53'50", in NE¼NW¼NE¼ sec.4, T.15 N., R.102 W., Sweetwater County, Hydrologic Unit 14040105, 0.3 mi (0.5 km) upstream from mouth and 25 mi (40 km) southeast of Rock Springs.

DRAINAGE AREA.--19.5 mi^2 (50.5 km^2).

PERIOD OF RECORD.--March to August 1976.

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
09...	1330	.05	340	.5	680	--	--	--	--	--	--
JUL											
25...	A2000	28	560	--	--	--	--	--	--	--	--
25...	A2030	131	700	--	--	--	--	--	--	--	--
AUG											
03...	--	28	510	--	--	--	--	--	--	--	--
03...	0945	36	230	8.0	4500	74	9	22	4.7	19	1.0

A Samples collected by single-stage sampler; time of sample estimated.

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
MAR										
09...	--	--	--	--	--	--	--	--	--	--
JUL										
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
AUG										
03...	--	--	--	--	--	--	--	--	--	--
03...	6.3	106	0	87	85	8.6	.2	2.8	205	.28

DATE	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR										
09...	--	--	--	--	--	--	--	1050	.14	100
JUL										
25...	--	--	--	--	--	--	--	55000	4160	--
25...	--	--	--	--	--	--	--	20600	7290	--
AUG										
03...	--	--	--	--	--	--	--	12700	960	--
03...	19.9	.74	.05	.15	70	260	10	15600	1520	94

09216695 NO NAME CREEK NEAR ROCK SPRINGS, WY

LOCATION.--Lat 41°28'54", long 108°58'17", in SW¼SW¼NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, 700 ft (214 m) upstream from mouth and 15 mi (24 km) southeast of Rock Springs.

DRAINAGE AREA.--18.2 mi^2 (47.1 km).

PERIOD OF RECORD.--Water years 1975 to current year.

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT		
07...	1225	2900

09216700 SALT WELLS CREEK NEAR ROCK SPRINGS, WY

LOCATION.--Lat 41°29'00", long 108°58'00", in NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, at bridge on old State Highway 430 and 15 mi (24 km) southeast of Rock Springs.

DRAINAGE AREA.--515 mi^2 (1,334 km^2).

PERIOD OF RECORD.--Water years 1975 to August 1976 (discontinued).

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
MAR					
25...	1115	18	1850	.0	--
APR					
08...	1240	13	2000	10.5	1400
MAY					
06...	1705	4.0	1550	8.0	750
JUN					
04...	1545	6.0	2000	23.0	370
23...	--	200	2300	--	--
25...	1055	3.3	3000	12.0	460
AUG					
05...	1415	15	2300	20.5	2500

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR									
25...	1115	.0	18	7000	340	--	--	--	86
APR									
08...	1240	10.5	13	7000	246	--	--	--	88
MAY									
06...	1705	8.0	4.0	2380	26	60	71	100	--
JUN									
04...	1545	23.0	6.0	893	14	--	--	--	92
23...	--	--	200	120000	64800	--	--	--	77
25...	1055	12.0	3.3	880	7.8	--	--	--	98
AUG									
05...	1415	20.5	15	5860	237	--	--	--	100

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAY								
06...	1705	4.0	8.0	11	7	40	97	100

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY

LOCATION.--Lat 41°37'50", long 108"59'18", in NE¼NW¼NE¼ sec.14, T.19 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on right bank 1.7 mi (2.7 km) south of Salt Wells, 3.0 mi (4.8 km) upstream from mouth, and 12 mi (19 km) east of Rock Springs.

DRAINAGE AREA.--526 mi^2 (1,362 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,340 ft (1,932 m), from topographic map.

REMARKS.--Records fair. No diversion above station.

EXTREMES FOR CURRENT PERIOD.--June to September 1976: Maximum discharge, 1,050 ft^3/s (29.7 m^3/s) Aug. 1, gage height, 8.80 ft (2.682 m), from rating curve extended above 320 ft^3/s (9.06 m^3/s) on basis of slope-area measurement of peak flow; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									6.1	.10	522	0
2									5.5	.10	172	0
3									4.4	2.1	116	0
4									3.1	.12	329	0
5									2.4	.07	56	0
6									2.0	0	13	0
7									1.9	0	6.4	0
8									1.1	0	3.4	0
9									.92	0	2.2	0
10									.60	0	1.1	0
11									.30	0	.30	0
12									.45	0	.13	0
13									1.3	0	.13	0
14									3.6	0	.12	0
15									4.4	0	.12	0
16									5.2	0	.11	0
17									6.4	0	.08	0
18									13	0	.04	0
19									7.4	23	0	0
20									6.4	4.3	0	0
21									3.6	.15	0	0
22									2.2	.13	0	0
23									48	.08	0	0
24									12	.01	0	0
25									7.4	0	0	0
26									4.1	11	0	5.7
27									2.0	98	0	.79
28									.92	22	0	.11
29									.13	1.3	0	.02
30									.11	.12	0	0
31									---	1.5	0	---
TOTAL									156.93	164.08	1222.13	6.62
MEAN									5.23	5.29	39.4	.22
MAX									48	98	522	5.7
MIN									.11	0	0	0
AC-FT									311	325	2420	13

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1975 to September 1976.

REMARKS.--No flow observed Nov. 17, Jan. 19, Aug. 17, Sept. 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
DEC										
17...	1030	.20	3900	8.2	.0	11.2	2.4	1800	1400	290
MAR										
20...	1030	37	1900	7.9	.0	11.6	7.0	770	630	170
24...	1130	16	2200	8.4	.0	--	--	840	660	170
31...	1740	9.0	2900	8.6	2.0	--	--	--	--	--
APR										
25...	1030	5.9	2800	8.2	7.0	9.3	2.6	1000	750	160
MAY										
19...	1000	8.1	1800	--	9.5	--	--	--	--	--
25...	1030	26	2100	8.2	12.0	8.7	3.8	--	--	--
27...	1255	11	2800	--	16.5	--	--	--	--	--
JUN										
03...	0845	4.1	1590	--	13.0	--	--	--	--	--
22...	1000	2.0	2600	8.4	16.0	8.0	3.9	1000	790	170
23...	1600	90	2600	--	11.5	--	--	--	--	--
23...	2040	53	1900	--	11.0	--	--	--	--	--
JUL										
20...	1100	2.2	2400	7.9	19.0	6.9	6.0	750	640	160
20...	1500	1.9	2200	7.9	20.0	6.8	--	720	490	160
28...	0800	12	2300	--	15.5	--	--	--	--	--
AUG										
02...	1130	211	2000	--	15.5	--	--	800	690	210
04...	1350	308	2000	--	14.5	--	--	--	--	--
05...	1100	39	2150	--	15.0	--	--	--	--	--
06...	1115	12	4000	--	16.5	--	--	--	--	--
11...	1520	.17	3500	--	22.0	--	--	--	--	--

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
DEC									
17...	250	460	4.8	25	430	0	353	1900	250
MAR									
20...	83	150	2.4	14	161	0	132	810	70
24...	100	190	2.9	12	219	0	180	890	100
31...	--	--	--	--	--	--	--	--	--
APR									
25...	150	240	3.3	11	322	0	264	1100	110
MAY									
19...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	0	--	--	--
27...	--	--	--	--	--	--	--	--	--
JUN									
03...	--	--	--	--	--	--	--	--	--
22...	150	260	3.5	16	310	0	254	1100	160
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
JUL									
20...	85	260	4.1	16	135	0	111	950	150
20...	79	250	4.0	15	283	0	232	870	110
28...	--	--	--	--	--	--	--	--	--
AUG									
02...	66	190	2.9	15	131	0	107	880	120
04...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)
DEC									
17...	.6	10	3400	4.62	1.84	.25	--	.01	--
MAR									
20...	.4	5.0	1380	1.88	138	.33	--	.03	--
24...	.4	5.3	1580	2.15	68.3	--	.36	--	--
31...	--	--	--	--	--	--	--	--	--
APR									
25...	.5	9.4	1940	2.64	30.9	.23	--	.02	--
MAY									
19...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	.33	--	.23	--
27...	--	--	--	--	--	--	--	--	--
JUN									
03...	--	--	--	--	--	--	--	--	--
22...	.5	11	2020	2.75	10.9	.36	--	.01	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
JUL									
20...	.4	7.1	1710	2.33	10.2	2.8	2.6	.01	.00
20...	.5	7.1	1630	2.22	8.36	1.4	--	.22	--
28...	--	--	--	--	--	--	--	--	--
AUG									
02...	.3	6.5	1560	2.12	889	--	.97	--	--
04...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
DEC									
17...	1.1	1.1	1.4	.11	--	--	--	--	--
MAR									
20...	.85	.88	1.2	6.3	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
APR									
25...	4.0	4.0	4.2	2.3	--	--	--	--	--
MAY									
19...	--	--	--	--	--	--	--	--	--
25...	7.8	8.0	8.3	6.4	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
JUN									
03...	--	--	--	--	--	--	--	--	--
22...	1.6	1.6	2.0	.78	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
JUL									
20...	3.6	3.6	6.4	5.1	.03	.02	.06	0	3.4
20...	3.2	3.4	4.8	2.2	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
AUG									
02...	--	--	--	--	--	.01	.03	--	--
04...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
DEC										
17...	1030	--	--	--	880	--	--	--	--	10
MAR										
20...	1030	22000	30	20	440	10	20	50	39000	20
24...	1130	--	--	--	650	--	--	--	--	120
APR										
25...	1030	38000	43	10	500	20	20	90	73000	10
JUN										
22...	1000	--	--	--	640	--	--	--	--	30
JUL										
20...	1100	--	--	--	550	--	--	--	--	160
20...	1500	48000	80	10	530	10	70	100	86000	30
AUG										
02...	1130	--	--	--	430	--	--	--	--	80

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
DEC 17...	--	--	--	--	--	--	--	--	--
MAR 20...	100	140	800	--	.0	6	50	5	210
24...	--	--	--	--	--	--	--	--	--
APR 25...	200	250	1600	--	.1	6	150	5	370
JUN 22...	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	10	--	--	--	--	--
20...	200	190	1900	--	.1	4	130	3	440
AUG 02...	--	--	--	10	--	--	--	--	--

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
DEC 17...	1030	.0	.20	603	.33	--	--	--	--	--
MAR 20...	1030	.0	37	1620	162	--	--	--	--	100
APR 25...	1030	7.0	5.9	3620	58	--	--	--	--	99
MAY 19...	1000	9.5	8.1	4020	88	68	94	100	--	--
25...	1030	12.0	26	12600	885	--	--	--	--	93
27...	1255	16.5	11	6020	179	55	80	99	100	--
JUN 03...	0845	13.0	4.1	1420	16	--	--	--	--	100
23...	1600	11.5	90	33600	8170	69	88	96	100	--
23...	2040	11.0	53	41600	5950	--	--	--	--	97
JUL 20...	1100	19.0	2.2	22400	133	--	--	--	--	100
28...	0800	15.5	12	48200	1560	69	94	100	--	--
AUG 02...	1130	15.5	211	21900	12500	--	--	--	--	95
04...	1350	14.5	308	26800	22300	--	--	--	--	98
05...	1100	15.0	39	25500	2690	--	--	--	--	99
06...	1115	16.5	12	11400	369	73	99	100	--	--
11...	1520	22.0	.17	175	.08	--	--	--	--	85

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAY 19...	1000	8.1	9.5	10	38	54	77	85
JUL 28...	0800	12	15.5	12	54	64	74	78

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAY 19...	87	90	92	94	94	94	100
JUL 28...	81	84	88	92	94	94	100

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUL 20,76
TIME	1100
TOTAL CELLS/ML	0
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0

ORGANISM	CELLS /ML	PER- CENT

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON ANALYSES

JULY 20, 1976
1100 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
	..PENNALES	PENNATE
	...DIATOMACEAE	
O	....DIATOMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
E	....ANABAENA	
	...OSCILLATORIACEAE	
E	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY

LOCATION.--Lat 41°35'56", long 109°13'54", in NW¼SW¼NW¼ sec.26, T.19 N., R.105 W., Sweetwater County, Hydrologic Unit 14040105, 0.6 mi (1.0 km) downstream from Interstate Highway 80, 0.8 mi (1.3 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Rock Springs.

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 20...	0745	E.40	3000	8.0	8.0	8.8	B11000	810	600	110	130
NOV 18...	0900	E.50	6500	7.9	1.0	11.2	2100	2000	1600	240	340
DEC 18...	0900	E.40	>8000	7.5	.5	7.3	B10300	2700	2100	350	440
JAN 20...	0845	E.30	>8000	7.4	.5	6.0	5600	3600	3000	400	640
FEB 17...	0900	E.30	8000	7.6	.5	8.2	4600	1800	1400	230	300
MAR 19...	1400	E3.0	3500	7.9	1.0	9.7	500	700	500	100	110
APR 25...	0800	E.50	7000	8.1	6.0	10.2	3450	2200	1800	270	360
MAY 24...	1610	E.40	5400	8.5	18.0	12.4	1300	--	--	--	--
JUN 23...	1430	E.10	4000	8.0	20.0	6.7	B320	1800	1500	270	270
JUL 21...	1400	E.10	>8000	8.5	28.0	16.1	B35000	3300	2900	310	610
AUG 18...	1030	E.30	>8000	8.3	19.0	10.3	B750	2200	1900	270	370
SEP 20...	1330	E.20	>8000	8.4	19.5	15.8	3800	2800	2400	300	490

E Estimate.
B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT 20...	350	5.4	18	254	0	208	920	340	.3	3.5
NOV 18...	1000	9.7	50	504	0	413	2200	1100	1.0	4.0
DEC 18...	1500	13	70	766	0	628	3600	1500	.8	9.3
JAN 20...	2700	20	94	781	0	641	4300	3300	.7	8.6
FEB 17...	1100	11	54	522	0	428	2100	1300	.9	9.0
MAR 19...	500	8.2	18	246	0	202	770	570	.6	4.6
APR 25...	900	8.4	45	388	0	318	2300	990	.8	1.3
MAY 24...	--	--	--	--	--	--	--	--	--	--
JUN 23...	670	6.9	48	360	0	295	2000	820	.8	8.7
JUL 21...	1900	14	110	418	0	343	4200	1900	.9	.2
AUG 18...	1000	9.3	56	422	0	346	2600	1000	.9	.8
SEP 20...	1300	11	83	488	0	400	3500	1400	1.1	1.1

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 20...	2000	2.72	2.16	.09	.18	.82	1.0	1.1	.22	12
NOV 18...	5190	7.06	7.01	.72	3.0	1.9	4.9	5.6	1.0	--
DEC 18...	7450	10.1	8.05	.99	4.6	4.9	9.5	11	.39	--
JAN 20...	11800	16.0	9.56	1.2	1.3	.70	2.0	3.2	.31	20
FEB 17...	5350	7.28	4.33	.93	3.4	1.4	4.8	5.7	.05	--
MAR 19...	2200	2.99	17.8	2.5	1.8	2.6	4.4	6.9	9.5	--
APR 25...	5060	6.88	6.83	.17	.09	2.0	2.1	2.3	.16	14
MAY 24...	--	--	--	1.1	.27	2.5	2.8	3.9	.22	--
JUN 23...	4270	5.81	1.15	4.3	.04	1.5	1.5	5.8	.14	--
JUL 21...	9240	12.6	2.49	.11	.00	2.4	2.4	2.5	.24	38
AUG 18...	5510	7.49	4.46	.20	.15	.75	.90	1.1	.06	--
SEP 20...	7320	9.96	3.95	.11	.01	1.7	1.7	1.8	.15	--

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	SUSPENDED ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	SUSPENDED BERYLLIUM (BE) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)
OCT 20...	0745	2000	2000	0	3	1	2	10	10	0	610	0
NOV 18...	0900	--	--	--	--	--	--	--	--	--	1900	--
DEC 18...	0900	--	--	--	--	--	--	--	--	--	2200	--
JAN 20...	0845	220	220	0	4	3	1	10	10	0	2500	20
FEB 17...	0900	--	--	--	--	--	--	--	--	--	1700	--
MAR 19...	1400	--	--	--	--	--	--	--	--	--	630	--
APR 25...	0800	260	240	20	4	3	1	0	0	0	2000	20
JUN 23...	1430	--	--	--	--	--	--	--	--	--	1500	--
JUL 21...	1400	150	120	30	5	4	1	10	10	0	3700	20
AUG 18...	1030	--	--	--	--	--	--	--	--	--	2200	--
SEP 20...	1330	--	--	--	--	--	--	--	--	--	2800	--

DATE	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)
OCT 20...	0	1	20	10	10	0	0	2	3600	0	0	0
NOV 18...	--	--	--	--	--	--	--	--	--	150	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	1200	--	--
JAN 20...	19	1	10	10	0	30	29	1	3700	1200	200	200
FEB 17...	--	--	--	--	--	--	--	--	--	810	--	--
MAR 19...	--	--	--	--	--	--	--	--	--	30	--	--
APR 25...	17	3	20	10	10	10	6	4	1800	30	200	200
JUN 23...	--	--	--	--	--	--	--	--	--	30	--	--
JUL 21...	18	2	20	0	20	30	25	5	1900	90	100	98
AUG 18...	--	--	--	--	--	--	--	--	--	40	--	--
SEP 20...	--	--	--	--	--	--	--	--	--	40	--	--

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DISSOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	SUSPENDED LITHIUM (LI) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	SUSPENDED MOLYBDENUM (MO) (UG/L)
OCT 20...	2	110	10	100	820	180	640	.0	.0	.0	6	0
NOV 18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 20...	2	480	20	460	4900	700	4200	.0	.0	.0	17	3
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	--	--	--	--	--	--	--	--	--	--	--	--
APR 25...	4	360	60	300	2100	400	1700	.0	.0	.0	8	1
JUN 23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	2	680	30	650	560	180	380	.0	.0	.0	8	0
AUG 18...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	SUSPENDED NICKEL (NI) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT 20...	5	0	0	6	1	0	1	2.3	40	30	10
NOV 18...	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	--	--
JAN 20...	14	90	72	18	1	0	1	24	60	30	30
FEB 17...	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	--	--	--	--	--	--	--	--	--	--	--
APR 25...	7	100	86	14	1	0	1	7.2	130	110	20
JUN 23...	--	--	--	--	--	--	--	--	--	--	--
JUL 21...	10	100	90	10	2	0	2	4.2	40	20	20
AUG 18...	--	--	--	--	--	--	--	--	--	--	--
SEP 20...	--	--	--	--	--	--	--	--	--	--	--

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY

LOCATION.--Lat 41°33'00", long 109°18'15", in NW¼SE¼SW¼ sec.7, T.18 N., R.105 W., Sweetwater County, Hydrologic Unit 14040105, at bridge on State Highway 373, 2.0 mi (3.2 km) east of Kanda, and 5.0 mi (8.0 km) west of Rock Springs.

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT												
20...	0945	1.5	2400	8.0	5.0	20	9.1	2.5	B1780000	360	62	75
NOV												
18...	1015	3.1	2500	8.1	1.0	30	10.2	7.3	520000	320	0	64
DEC												
18...	1030	6.0	4000	7.8	.5	25	4.7	3.3	580000	790	390	120
JAN												
20...	1015	5.9	3300	7.6	.0	25	4.7	5.2	1780000	420	93	78
FEB												
17...	1000	E5.0	7000	7.9	.0	280	9.0	>6.5	280000	980	500	180
MAR												
19...	0830	E25	1950	8.1	.5	2200	10.2	8.0	B10000	590	400	100
APR												
21...	1230	E10	3500	8.2	9.0	1100	8.7	7.0	B30000	1100	740	160
MAY												
24...	1500	42	2700	8.0	17.0	4000	7.8	7.0	62000	--	--	--
JUN												
23...	0830	24	1700	7.9	10.0	5600	6.9	7.2	50000	490	0	88
JUL												
21...	0830	4.5	3000	8.1	16.0	60	6.2	5.8	400000	880	670	170
AUG												
18...	0900	3.5	3500	8.2	15.0	2	8.7	8.4	B30000	450	170	89
SEP												
16...	0730	3.0	2600	8.2	12.0	10	6.7	5.8	B20000	370	170	74

E Estimate.
B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
OCT												
20...	43	330	7.5	15	369	0	303	380	300	.7	7.3	--
NOV												
18...	38	410	10	15	428	0	351	400	360	1.6	12	--
DEC												
18...	120	520	8.0	20	495	0	406	940	460	1.1	12	--
JAN												
20...	54	460	9.0	16	395	0	324	410	510	.8	11	--
FEB												
17...	130	990	14	34	597	0	490	1100	1100	1.0	17	--
MAR												
19...	83	240	4.3	10	236	0	194	730	130	.5	5.2	--
APR												
21...	160	380	5.1	14	385	0	316	1100	260	.4	7.9	--
MAY												
24...	--	--	--	--	--	0	--	--	--	--	--	1900
JUN												
23...	65	190	3.7	9.8	1120	0	919	610	120	.3	5.4	--
JUL												
21...	110	440	6.5	17	258	0	212	1200	310	.6	8.5	--
AUG												
18...	56	550	11	16	340	0	279	420	630	.6	.8	--
SEP												
16...	45	450	10	15	246	0	202	420	500	.6	1.8	--

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 20...	1330	1.81	5.39	--	.30	21	3.0	24	24	15	23
NOV 18...	1510	2.05	12.6	--	.35	19	5.0	24	24	5.5	--
DEC 18...	2440	3.32	34.5	--	.61	17	5.0	22	23	7.6	--
JAN 20...	1740	2.37	27.7	--	.10	15	.00	1.7	1.8	11	21
FEB 17...	3850	5.24	52.0	--	.77	19	10	29	30	.14	--
MAR 19...	1420	1.93	95.9	--	.25	.76	4.1	4.9	5.2	11	--
APR 21...	2270	3.09	61.3	--	.35	1.1	3.2	4.3	4.7	2.4	9.6
MAY 24...	--	--	--	870	.82	.88	3.0	3.9	4.7	.55	--
JUN 23...	1640	2.23	106	--	1.0	.16	8.3	8.5	9.5	9.6	--
JUL 21...	2380	3.24	28.9	--	.20	.58	3.9	4.5	4.7	4.2	21
AUG 18...	1930	2.62	18.2	--	.70	11	.00	10	11	7.9	--
SEP 16...	1630	2.22	13.2	--	2.2	6.0	1.3	7.3	9.5	6.8	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	SUS-PENDED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	SUS-PENDED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
OCT 20...	0945	580	570	10	5	1	4	10	0	10	780	0
NOV 18...	1015	--	--	--	--	--	--	--	--	--	1100	--
DEC 18...	1030	--	--	--	--	--	--	--	--	--	890	--
JAN 20...	1015	750	750	0	3	0	3	10	10	0	1	10
FEB 17...	1000	--	--	--	--	--	--	--	--	--	1600	--
MAR 19...	0830	--	--	--	--	--	--	--	--	--	350	--
APR 21...	1230	28000	28000	10	33	29	4	20	20	0	510	<10
JUN 23...	0630	--	--	--	--	--	--	--	--	--	420	--
JUL 21...	0830	1300	1300	40	6	0	6	0	0	0	860	10
AUG 18...	0900	--	--	--	--	--	--	--	--	--	680	--
SEP 16...	0730	--	--	--	--	--	--	--	--	--	630	--

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)
OCT 20...	0	1	30	30	0	10	1	9	850	50	<100	<97
NOV 18...	--	--	--	--	--	--	--	--	--	250	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	70	--	--
JAN 20...	9	1	0	0	0	20	15	5	1200	110	<100	<94
FEB 17...	--	--	--	--	--	--	--	--	--	30	--	--
MAR 19...	--	--	--	--	--	--	--	--	--	10	--	--
APR 21...	<8	2	60	50	10	60	55	5	96000	20	100	98
JUN 23...	--	--	--	--	--	--	--	--	--	10	--	--
JUL 21...	9	1	10	10	0	20	17	3	2100	20	<100	<100
AUG 18...	--	--	--	--	--	--	--	--	--	40	--	--
SEP 16...	--	--	--	--	--	--	--	--	--	70	--	--

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	SUS-PENDED LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	SUS-PENDED MOLYB-DENUM (MO) (UG/L)
OCT												
20...	3	40	0	40	250	70	180	.0	.0	.0	4	1
NOV												
18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
20...	6	70	0	70	380	60	320	.0	.0	.0	2	1
FEB												
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
21...	2	240	80	160	1100	1100	50	.0	.0	.0	7	1
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
21...	0	130	0	130	340	40	300	.0	.0	.0	3	3
AUG												
18...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
16...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	SUS-PENDED NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT											
20...	3	0	0	6	0	0	0	5.0	170	150	20
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
DEC											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN											
20...	1	<50	<44	6	0	0	0	4.8	50	30	20
FEB											
17...	--	--	--	--	--	--	--	--	--	--	--
MAR											
19...	--	--	--	--	--	--	--	--	--	--	--
APR											
21...	6	<50	<46	4	3	1	2	3.3	320	310	10
JUN											
23...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	0	<50	<46	4	2	0	2	.0	30	20	10
AUG											
18...	--	--	--	--	--	--	--	--	--	--	--
SEP											
16...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
MAY									
24...	1500	<27	110	16	43	13	34	.15	6.9

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¼NE¼NE¼ sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi (0.2 km) downstream from Bitter Creek, 1.0 mi (1.6 km) southeast of town of Green River, and 4.0 mi (6.4 km) upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA (REVISED).--About 14,000 mi^2 (36,300 km^2), of which 4,260 mi^2 (11,030 km^2), including 3,959 mi^3 (10,254 km^3) in Great Divide Basin in southern Wyoming, is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1951 to current year.

REVISED RECORDS.--WSP 1713: 1957.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See sta 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres (902 km^2) above station.

AVERAGE DISCHARGE.--25 years, 1,745 ft^3/s (49.42 m^3/s), 1,264,000 acre-ft/yr (1,560 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s (476 m^3/s) Sept. 7, 1965, gage height, 8.53 ft (2.600 m), caused by emergency release from Fontenelle Reservoir; minimum daily, 170 ft^3/s (4.81 m^3/s) Nov. 16, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 22,200 ft^3/s (629 m^3/s) June 19, 1918, at site 1.5 mi (2.4 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,660 ft^3/s (217 m^3/s) May 26, gage height, 5.61 ft (1.710 m); minimum daily, 760 ft^3/s (21.5 m^3/s) Oct. 4-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	778	1020	1300	1170	1180	1500	1540	2680	7440	1770	3840	1740
2	778	994	1400	1140	1200	1400	1480	2680	7410	1820	3420	1720
3	769	994	1400	1150	1160	1300	1400	2680	7410	1820	3340	1700
4	760	994	1370	1180	1100	1200	1320	2680	7010	1800	3780	1720
5	760	994	1300	1200	1060	1200	1270	2660	6930	1780	3600	1700
6	760	1000	1380	1180	1060	1250	1200	2920	6960	1750	3400	1740
7	760	1000	1340	1160	1040	1250	1180	3230	6930	1720	3200	1700
8	823	1000	1230	1150	1060	1300	1150	3270	6560	1690	2980	1320
9	940	1000	1160	1140	1100	1320	1160	3290	6140	1830	2750	814
10	950	1000	1200	1120	1120	1380	1170	3290	6060	2440	2520	805
11	940	970	1160	1120	1100	1400	1180	3420	6140	3030	2380	805
12	950	980	1140	1120	1100	1540	1200	3560	6140	3450	2230	796
13	1000	980	1140	1120	1100	1700	1300	3920	6260	3710	2100	796
14	983	972	1140	1120	1100	1800	1480	4240	6280	3920	2000	796
15	972	972	1100	1120	1100	2000	1800	4350	5810	4030	1900	796
16	972	994	1050	1140	1100	1900	2060	4350	5310	4030	1850	778
17	983	994	1000	1180	1090	1740	2120	4400	4860	3940	1770	850
18	983	1000	1000	1200	1090	1860	2120	4650	4600	3800	1700	972
19	983	1000	1050	1250	1100	2250	2120	5230	4000	3600	1690	950
20	983	980	1150	1250	1100	1980	2120	5330	3600	3530	1640	961
21	983	970	1200	1240	1080	1740	2120	5330	3600	3470	1640	950
22	983	950	1200	1200	1100	1700	2120	5840	3400	3470	1660	961
23	994	970	1200	1140	1120	1780	2100	6280	3100	3400	1690	950
24	1030	1000	1190	1100	1150	1860	2120	6790	2600	3290	1660	950
25	1020	1000	1200	1080	1150	1830	2180	7120	2270	3180	1690	930
26	1020	1000	1210	1080	1200	1720	2190	7580	2230	3070	1700	950
27	1050	1100	1200	1100	1250	1640	2320	7600	2230	2980	1700	940
28	1030	1150	1190	1110	1350	1620	2520	7550	2190	2900	1720	940
29	1030	1180	1190	1120	1460	1620	2680	7520	1880	2770	1740	930
30	1020	1250	1200	1180	---	1650	2700	7500	1750	2660	1740	920
31	1020	---	1190	1200	---	1600	---	7440	---	2720	1740	---
TOTAL	29007	30408	37180	35760	32920	50030	53420	149380	147100	89370	70770	32960
MEAN	936	1014	1199	1154	1135	1614	1781	4819	4903	2883	2283	1099
MAX	1050	1250	1400	1250	1460	2250	2700	7600	7440	4030	3840	1780
MIN	760	950	1000	1080	1040	1200	1150	2660	1750	1690	1640	778
AC-FT	57540	60310	73750	70930	65300	99230	106000	296300	291800	177300	140400	65380

CAL YR 1975 TOTAL 698190 MEAN 1913 MAX 6730 MIN 722 AC-FT 1385000
WTR YR 1976 TOTAL 758305 MEAN 2072 MAX 7600 MIN 760 AC-FT 1504000

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily water temperatures and samples of specific conductance and sediment collected at bridge on State Highway 530 in town of Green River, 0.8 mi (1.3 km) upstream from Bitter Creek and 1.0 mi (1.6 km) upstream from discharge station.

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1951 to current year.
WATER TEMPERATURES: May 1951 to current year.
SEDIMENT CONCENTRATIONS: May 1951 to current year.
SEDIMENT LOADS: May 1951 to current year.

REMARKS.--Flow affected by ice Nov. 11-13, Nov. 19 to Dec. 4, Dec. 14 to Mar. 16.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum observed, 1,460 micromhos Jan. 23, 1972; minimum daily, 219 micromhos May 22, 1954.
WATER TEMPERATURES: Maximum, 26.0°C July 8, 22, 1961, July 24, 1962; minimum, 0.0°C on many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,000 mg/L Aug. 11, 1963; minimum daily mean, 0 mg/L Sept. 18, 1962.
SEDIMENT LOADS: Maximum daily, 110,000 tons (99,800 tonnes) Mar. 28, 1962; minimum daily, 0 ton Sept. 18, 1962.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 1,000 micromhos Oct. 8; minimum observed, 310 micromhos July 22.
WATER TEMPERATURES: Maximum, 23.0°C July 24; minimum, 0.0°C on many days during November to March.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 725 mg/L Aug. 1; minimum daily mean, 1 mg/L Oct. 22.
SEDIMENT LOADS: Maximum daily, 8,250 tons (7,480 tonnes) Aug. 1; minimum daily, 2.7 tons (2.4 tonne) Oct. 22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT												
08...	1640	823	1000	--	9.0	1	--	--	--	--	--	--
20...	1200	983	650	8.5	10.0	2	10.2	2.0	54	220	84	53
NOV												
07...	1440	1020	610	--	6.5	2	--	--	--	--	--	--
18...	1130	994	640	8.4	3.0	2	11.6	2.2	35	220	78	54
DEC												
06...	1430	805	520	--	.0	5	--	--	--	--	--	--
18...	1200	A1000	640	8.2	.0	4	11.8	2.1	78	240	85	62
JAN												
20...	1200	A1250	560	8.2	.0	1	11.2	1.4	32	230	69	61
21...	1645	A1240	530	--	.0	1	--	--	--	--	--	--
FEB												
17...	1130	A1090	570	8.2	.0	3	10.8	1.4	B2	250	87	62
MAR												
19...	1015	2400	680	8.0	3.0	140	10.2	4.4	B12	210	60	52
26...	1045	1720	600	--	.5	120	--	--	--	--	--	--
APR												
21...	1400	2140	650	8.2	7.0	20	10.2	3.4	28	220	69	55
MAY												
05...	1820	2680	500	--	12.0	8	--	--	--	--	--	--
24...	1015	6200	490	8.2	14.0	15	10.4	4.0	28	180	31	46
25...	1900	7120	490	--	13.0	20	--	--	--	--	--	--
JUN												
18...	1650	4400	360	--	14.5	100	--	--	--	--	--	--
23...	1015	3360	375	8.1	13.0	30	8.1	1.7	30	150	34	37
JUL												
08...	1725	1660	500	--	21.0	1	--	--	--	--	--	--
09...	1300	1860	440	8.1	21.0	3	9.3	1.5	--	--	--	--
21...	1030	3470	370	8.2	18.0	6	7.8	5.6	B15	160	35	42
22...	0900	3470	310	8.4	18.0	1	8.2	3.2	--	170	38	43
28...	1100	2900	410	--	18.0	1	--	--	--	--	--	--
AUG												
18...	1130	1700	520	8.4	18.0	1	7.9	4.4	B11	220	79	51
SEP												
02...	1000	1740	520	--	16.0	1	--	--	--	--	--	--
14...	1300	796	750	--	13.0	0	--	--	--	--	--	--
16...	0845	778	710	8.3	14.0	20	7.9	1.8	B8	230	98	55

A Daily mean discharge.
B Results based on colony count outside the acceptable range (non-ideal colony count).

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT												
08...	--	--	--	--	--	--	--	--	--	--	--	--
20...	21	52	1.5	1.7	146	9	135	180	5.8	.2	4.0	399
NOV												
07...	--	--	--	--	--	--	--	--	--	--	--	--
18...	21	58	1.7	2.1	162	6	143	180	10	.3	4.8	416
DEC												
06...	--	--	--	--	--	--	--	--	--	--	--	--
18...	21	56	1.6	2.1	191	0	157	180	7.7	.3	6.8	430
JAN												
20...	20	41	1.2	2.0	202	0	166	150	8.4	.4	6.1	389
21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
17...	23	52	1.4	2.5	192	3	162	160	8.0	.3	6.1	412
MAR												
19...	19	66	2.0	2.4	180	0	148	180	6.8	.2	6.7	422
26...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
21...	21	40	1.2	2.6	189	0	155	130	8.6	.3	5.5	356
MAY												
05...	--	--	--	--	--	--	--	--	--	--	--	--
24...	17	54	1.7	4.5	188	0	154	100	9.9	.1	6.0	330
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
18...	--	--	--	--	--	--	--	--	--	--	--	--
23...	14	24	.9	1.7	142	0	116	72	6.0	.2	6.3	231
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--	--
21...	14	22	.8	1.9	155	0	127	77	5.1	.2	5.3	244
22...	14	23	.8	1.8	155	0	127	87	5.3	.2	5.5	257
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
18...	22	48	1.4	3.0	169	0	139	130	8.9	.2	.3	347
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--
16...	23	67	1.9	2.2	163	0	134	210	10	.2	2.0	450

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
20...	.54	1060	.00	--	.03	--	.13	--	.16	--	.16
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
18...	.57	1120	.11	--	.00	--	.40	--	.40	--	.51
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
18...	.58	1160	.14	--	.02	--	1.4	--	1.4	--	1.5
JAN											
20...	.53	1310	.11	--	.04	--	1.3	--	1.3	--	1.4
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
17...	.56	1210	.14	--	.00	--	.44	--	.44	--	.58
MAR											
19...	.57	2730	.16	--	.04	--	.96	--	1.0	--	1.2
26...	--	--	--	--	--	--	--	--	--	--	--
APR											
21...	.48	2060	.07	--	.10	--	.83	--	.93	--	1.0
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
24...	.45	5520	.09	--	.04	--	1.2	--	1.2	--	1.3
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
18...	--	--	--	--	--	--	--	--	--	--	--
23...	.31	2100	.21	--	.01	--	.44	--	.45	--	.66
JUL											
08...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
21...	.33	2290	.07	--	.03	--	.60	--	.63	--	.70
22...	.35	2410	.04	.14	.00	.02	9.4	.28	9.4	.30	9.4
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
18...	.47	1590	.02	--	.07	--	.40	--	.47	--	.49
SEP											
02...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
16...	.61	945	.01	--	.01	--	.29	--	.30	--	.31

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. FINER THAN .062 MM
OCT											
08...	--	--	--	--	--	--	--	--	2	4.4	--
20...	.09	--	--	--	60	0	--	--	--	--	--
NOV											
07...	--	--	--	--	--	--	--	--	26	72	--
18...	.03	--	--	--	80	70	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	80	191	--
18...	.03	--	--	--	60	10	--	--	--	--	--
JAN											
20...	.01	--	--	--	0	30	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	11	37	--
FEB											
17...	.13	--	--	--	50	10	--	--	--	--	--
MAR											
19...	.41	--	--	--	60	30	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	280	1300	93
APR											
21...	.08	--	--	--	40	10	--	--	--	--	--
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
24...	.11	--	--	--	50	20	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
JUN											
18...	--	--	--	--	--	--	--	--	254	3020	91
23...	.05	--	--	--	40	20	--	--	--	--	--
JUL											
08...	--	--	--	--	--	--	--	--	11	49	67
09...	--	--	--	--	--	--	1500	5.2	--	--	--
21...	.02	--	--	--	50	10	--	--	--	--	--
22...	.03	.02	.04	.01	60	120	890	--	--	--	--
28...	--	--	--	--	--	--	--	--	9	70	49
AUG											
18...	.03	--	--	--	60	20	--	--	--	--	--
SEP											
02...	--	--	--	--	--	--	--	--	40	188	63
14...	--	--	--	--	--	--	--	--	3	6.4	--
16...	.01	--	--	--	80	10	--	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	SUS-PENDED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	SUS-PENDED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)
OCT												
20...	1200	90	80	10	0	0	0	10	0	10	0	0
JAN												
20...	1200	80	80	0	0	0	0	10	10	0	<10	<9
APR												
21...	1400	80	80	0	1	0	1	10	10	0	<10	<7
JUL												
21...	1030	180	160	20	1	0	2	0	0	0	<10	<8

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)
OCT												
20...	1	10	10	0	10	9	1	20	<100	<98	2	10
JAN												
20...	1	0	0	0	<10	<10	0	110	<100	<96	4	10
APR												
21...	3	0	0	0	10	4	6	1100	<100	<98	2	10
JUL												
21...	2	0	0	0	10	7	3	220	<100	<100	0	10

DATE	SUS-PENDED LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	SUS-PENDED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)
OCT											
20...	0	10	10	0	10	.0	.0	.0	2	0	2
JAN											
20...	0	10	10	0	10	.0	.0	.2	1	0	1
APR											
21...	0	10	50	40	10	.0	.0	.0	3	2	1
JUL											
21...	0	10	20	20	0	.0	.0	.0	0	0	0

DATE	TOTAL NICKEL (NI) (UG/L)	SUS-PENDED NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
20...	0	0	3	0	0	0	.6	10	0	10	4.2
JAN											
20...	<50	<46	4	0	0	0	.8	10	10	0	2.5
APR											
21...	<50	<48	2	0	0	0	.5	40	30	10	2.7
JUL											
21...	<50	<50	0	0	0	0	.0	20	10	10	4.9

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	745	671	602	680	614	515	667	529	386	485	426	493
2	718	687	541	666	625	593	658	518	384	475	444	468
3	934	672	607	677	618	562	669	516	379	476	431	472
4	743	656	582	666	631	582	675	514	371	466	439	477
5	717	650	634	682	635	593	681	512	363	471	400	484
6	715	661	635	666	627	591	720	504	362	471	400	477
7	714	650	635	666	625	562	759	499	351	416	401	483
8	719	659	616	661	645	566	750	495	351	487	402	508
9	661	659	635	657	641	572	745	490	337	469	416	592
10	683	693	656	649	590	588	735	490	345	442	417	673
11	650	639	698	619	628	572	728	490	344	411	421	691
12	639	639	635	635	604	576	728	487	333	376	467	686
13	666	569	666	630	626	602	727	484	330	367	457	686
14	645	569	656	637	607	602	683	478	326	363	469	686
15	656	570	598	625	610	583	573	474	337	376	474	687
16	649	633	605	629	588	574	570	475	338	363	474	679
17	643	664	493	603	627	567	559	478	338	366	479	695
18	639	817	690	624	627	594	566	472	333	373	489	638
19	634	679	688	603	627	602	600	457	359	379	467	623
20	634	576	616	631	626	594	578	450	356	381	495	618
21	639	638	669	631	627	626	568	452	352	395	505	608
22	661	653	609	633	601	598	553	445	367	382	498	613
23	650	767	638	639	626	663	547	509	379	382	496	612
24	639	699	633	638	634	635	551	465	380	389	507	617
25	621	694	668	638	630	672	557	466	428	393	487	612
26	648	738	613	638	646	634	557	426	422	392	487	607
27	605	740	710	655	646	651	567	414	420	387	497	629
28	621	553	634	655	515	655	598	416	421	397	503	612
29	658	608	667	660	519	659	541	404	429	395	487	607
30	658	631	635	623	---	639	522	394	429	416	486	613
31	658	---	635	614	---	631	---	396	---	416	485	---
MONTH	673	658	632	643	616	602	631	471	368	412	461	598
YEAR	MAX	934	MIN	326	MEAN	563						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	6.0	0.0	0.0	1.0	1.0	4.0	8.0	15.0	16.0	19.5	20.0
2	10.0	6.0	0.0	0.0	1.0	0.0	4.0	7.0	14.5	17.0	17.5	22.0
3	14.0	6.0	0.0	0.0	1.0	0.0	3.5	7.0	15.0	16.0	17.0	22.0
4	13.0	6.0	0.0	0.0	0.0	0.0	5.0	11.0	13.0	19.0	17.0	19.0
5	10.0	6.0	0.0	0.0	0.0	0.0	9.0	12.0	14.5	19.0	17.0	19.0
6	11.0	6.0	0.0	0.0	0.0	0.0	8.0	10.0	14.5	18.0	17.5	17.0
7	12.0	5.0	0.0	0.0	0.0	1.0	7.0	10.0	15.0	19.0	16.5	14.0
8	8.0	5.0	1.5	0.0	0.0	0.0	8.0	9.0	15.0	18.0	16.0	12.0
9	9.0	4.0	3.0	0.0	1.0	1.0	9.0	11.0	15.5	17.5	16.0	11.0
10	10.0	2.5	2.5	0.0	0.5	1.0	9.0	14.0	16.0	18.0	16.5	18.0
11	13.0	2.0	3.0	0.0	1.0	1.0	9.0	12.0	13.0	18.0	19.0	16.0
12	10.0	1.0	2.0	0.0	1.0	0.0	8.5	12.0	12.0	18.5	19.0	16.0
13	8.0	2.0	0.0	0.0	1.0	0.0	10.0	14.0	13.0	17.0	17.5	16.0
14	6.5	3.0	0.0	0.0	1.0	0.0	7.0	15.0	9.0	17.0	15.5	18.0
15	6.0	1.5	0.0	0.5	1.0	0.0	6.0	11.0	11.5	19.5	16.0	17.0
16	6.0	3.5	0.0	1.0	1.0	0.0	6.0	8.0	14.0	18.0	16.0	19.0
17	9.0	2.5	0.0	0.5	0.0	1.5	4.0	14.0	12.0	18.0	15.0	18.0
18	10.0	2.5	0.0	1.0	0.0	1.5	5.0	15.0	12.5	19.0	17.0	17.0
19	11.0	1.0	0.0	0.0	0.0	3.0	5.0	14.0	13.0	19.0	20.0	14.0
20	11.5	0.5	0.0	0.0	0.0	1.0	6.0	14.0	14.5	20.5	17.0	16.0
21	8.0	1.0	0.0	0.0	0.0	2.0	10.0	13.0	14.0	21.0	17.0	17.0
22	8.0	1.0	0.0	0.0	0.0	2.0	10.0	11.0	14.5	21.0	16.5	18.0
23	4.0	1.0	0.0	0.0	0.0	3.0	7.0	13.0	11.5	21.5	17.0	15.0
24	4.0	1.0	0.0	0.0	0.0	3.0	7.0	14.0	11.0	23.0	15.0	16.0
25	4.0	1.0	0.0	0.0	0.0	4.0	9.0	14.0	12.0	22.0	18.5	14.0
26	7.0	0.0	0.0	0.0	0.0	4.0	4.0	15.0	12.0	21.5	18.5	12.0
27	6.0	0.0	0.0	0.0	0.0	4.0	8.0	15.0	15.0	20.5	13.0	15.0
28	5.0	0.0	0.0	2.0	1.0	3.0	5.0	14.5	15.0	20.0	14.5	15.0
29	6.0	0.0	0.0	0.0	1.0	4.0	6.0	13.0	16.5	19.0	16.0	15.0
30	4.0	0.0	0.0	1.0	---	8.0	10.0	14.0	17.0	19.5	19.0	15.0
31	5.0	---	0.0	2.0	---	6.0	---	14.0	---	20.0	20.0	---
MONTH	8.5	2.5	0.5	0.5	0.5	2.0	7.0	12.0	13.5	19.0	17.0	16.5
YEAR	MAX	23.0	MIN	0.0	MEAN	8.5						

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	778	4	8.4	1020	40	110	1300	10	35
2	778	8	17	994	22	59	1400	25	94
3	769	3	6.2	994	16	43	1400	6	23
4	760	3	6.2	994	10	27	1370	148	547
5	760	6	12	994	10	27	1300	112	393
6	760	3	6.2	1000	11	30	1380	53	197
7	760	7	14	1000	15	40	1340	123	445
8	823	7	16	1000	9	24	1230	102	339
9	940	12	30	1000	8	22	1160	20	63
10	950	3	7.7	1000	13	35	1200	11	36
11	940	2	5.1	970	10	26	1160	9	28
12	950	2	5.1	980	15	40	1140	9	28
13	1000	4	11	980	20	53	1140	9	28
14	983	10	27	972	8	21	1140	12	37
15	972	6	16	972	7	18	1100	12	36
16	972	7	18	994	4	11	1050	12	34
17	983	5	13	994	12	32	1000	4	11
18	983	4	11	1000	7	19	1000	27	73
19	983	7	19	1000	9	24	1050	48	136
20	983	6	16	980	42	111	1150	93	289
21	983	6	16	970	14	37	1200	93	301
22	983	1	2.7	950	5	13	1200	168	544
23	994	3	8.1	970	4	10	1200	160	518
24	1030	4	11	1000	3	8.1	1190	24	77
25	1020	2	5.5	1000	9	24	1200	125	405
26	1020	7	19	1000	11	30	1210	127	415
27	1050	9	26	1100	15	45	1200	59	191
28	1030	6	17	1150	36	112	1190	67	215
29	1030	8	22	1180	27	86	1190	22	71
30	1020	3	8.3	1250	7	24	1200	7	23
31	1020	20	55	---	---	---	1190	7	22
TOTAL	29007	---	455.5	30408	---	1161.1	37180	---	5654

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1170	4	13	1160	5	16	1500	555	2250
2	1140	11	34	1200	4	13	1400	255	964
3	1150	8	25	1160	8	25	1300	85	298
4	1180	5	16	1100	5	15	1200	50	162
5	1200	4	13	1060	4	11	1200	88	285
6	1180	12	38	1060	4	11	1250	83	280
7	1160	25	78	1040	9	25	1250	83	280
8	1150	9	28	1060	15	43	1300	68	239
9	1140	3	9.2	1100	10	30	1320	95	339
10	1120	8	24	1120	10	30	1380	152	566
11	1120	6	18	1100	9	27	1400	239	903
12	1120	6	18	1100	8	24	1540	149	620
13	1120	7	21	1100	7	21	1700	90	413
14	1120	8	24	1100	5	15	1800	95	462
15	1120	23	70	1100	6	18	2000	124	670
16	1140	18	55	1100	10	30	1900	195	1000
17	1180	12	38	1090	12	35	1740	76	357
18	1200	11	36	1090	19	56	1860	86	432
19	1250	15	51	1100	13	39	2250	500	3040
20	1250	7	24	1100	6	18	1980	505	2700
21	1240	6	20	1080	3	8.7	1740	312	1470
22	1200	6	19	1100	2	5.9	1700	78	358
23	1140	3	9.2	1120	5	15	1780	94	452
24	1100	2	5.9	1150	2	6.2	1860	132	663
25	1080	7	20	1150	2	6.2	1830	203	1000
26	1080	3	8.7	1200	8	26	1720	282	1310
27	1100	3	8.9	1250	8	27	1640	117	518
28	1110	9	27	1350	424	1550	1620	86	376
29	1120	13	39	1460	355	1400	1620	60	262
30	1180	9	29	---	---	---	1650	48	214
31	1200	17	55	---	---	---	1600	40	173
TOTAL	35760	---	874.9	32920	---	3547.0	50030	---	23056

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1540	43	179	2680	35	253	7440	62	1250
2	1480	46	184	2680	40	289	7410	58	1160
3	1400	22	83	2680	25	181	7410	57	1140
4	1320	27	96	2680	50	362	7010	57	1080
5	1270	42	144	2660	61	438	6930	45	842
6	1200	60	194	2920	72	568	6960	42	789
7	1180	80	255	3230	112	977	6930	45	842
8	1150	98	304	3270	90	795	6560	53	939
9	1160	116	363	3290	95	844	6140	48	796
10	1170	134	423	3290	96	853	6060	34	556
11	1180	150	478	3420	106	979	6140	48	796
12	1200	190	616	3560	126	1210	6140	47	779
13	1300	290	1020	3920	150	1590	6260	70	1180
14	1480	439	1750	4240	168	1920	6280	141	2390
15	1800	379	1840	4350	135	1590	5810	37	580
16	2060	202	1120	4350	134	1570	5310	27	387
17	2120	130	744	4400	123	1460	4860	27	354
18	2120	111	635	4650	139	1750	4600	186	2310
19	2120	88	504	5230	150	2120	4000	65	702
20	2120	72	412	5330	148	2130	3600	34	330
21	2120	71	406	5330	97	1400	3600	24	233
22	2120	73	418	5840	117	1840	3400	31	285
23	2100	65	369	6280	145	2460	3100	20	167
24	2120	58	332	6790	121	2220	2600	20	140
25	2180	49	288	7120	124	2380	2270	23	141
26	2190	47	278	7580	140	2870	2230	24	145
27	2320	54	338	7600	116	2380	2230	20	120
28	2520	81	551	7550	101	2060	2190	11	65
29	2680	62	449	7520	82	1660	1880	6	30
30	2700	81	590	7500	64	1300	1750	5	24
31	---	---	---	7440	73	1470	---	---	---
TOTAL	53420	---	15363	149380	---	43919	147100	---	20552

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1770	5	24	3840	725	8250	1740	22	103
2	1820	5	25	3420	562	5190	1720	26	121
3	1820	7	34	3340	180	1620	1700	17	78
4	1800	6	29	3780	190	1940	1720	17	79
5	1780	6	29	3600	210	2040	1700	20	92
6	1750	6	28	3400	140	1290	1740	22	103
7	1720	7	33	3200	74	639	1780	160	769
8	1690	9	41	2980	67	539	1320	14	53
9	1830	6	30	2750	52	386	814	4	8.8
10	2440	16	105	2520	40	272	805	4	8.7
11	3030	20	164	2380	45	289	805	6	13
12	3450	10	93	2230	24	145	796	10	21
13	3710	8	80	2100	27	153	796	4	8.6
14	3920	14	148	2000	26	140	796	4	8.6
15	4030	14	152	1900	25	128	796	10	21
16	4030	9	98	1850	26	130	778	4	8.4
17	3940	14	149	1770	25	119	850	6	15
18	3800	10	103	1700	21	96	972	16	42
19	3600	7	68	1690	21	96	950	8	21
20	3530	6	57	1640	21	93	961	4	10
21	3470	4	37	1640	26	115	950	3	7.7
22	3470	15	141	1660	37	166	961	2	5.2
23	3400	22	202	1690	31	141	950	7	18
24	3290	41	364	1660	30	134	950	7	18
25	3180	36	309	1690	23	105	930	8	20
26	3070	28	232	1700	24	110	950	9	23
27	2980	26	209	1700	26	119	940	6	15
28	2900	17	133	1720	27	125	940	7	18
29	2770	24	179	1740	23	108	930	3	7.5
30	2660	23	165	1740	19	89	920	6	15
31	2720	67	492	1740	19	89	---	---	---
TOTAL	89370	---	3953	70770	---	24856	32960	---	1731.5
YEAR	758305		145123.0						

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSIS

DATE	JUL 9,76	JUL 22,76
TIME	1300	0900
TOTAL CELLS/ML	1500	890
DIVERSITY: DIVISION	0.5	0.8
.CLASS	0.5	0.8
..ORDER	0.9	1.0
...FAMILY	2.8	3.0
....GENUS	3.1	3.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...CHARACIACEAE				
....SCHROEDERIA	--	-	15	2
...OOCYSTACEAE				
....ANKISTRODESMUS	14	1	*	0
....CHODATELLA	84	6	--	-
....OOCYSTIS	--	-	210#	24
...SCENEDESMACEAE				
....SCENEDESMUS	56	4	15	2
..ZYGNEMATALES				
...DESMIDIACEAE				
....CLOSTERIUM	--	-	*	0
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..PENNALES				
...NAVICULACEAE				
....ENTOMONEIS	14	1	--	-
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	84	6	--	-
....MELOSIRA	70	5	15	2
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	28	2	15	2
....COCCONEIS	28	2	100	12
....RHOICOSPHENIA	84	6	*	0
...CYMBELLACEAE				
....AMPHORA	--	-	15	2
....CYMBELLA	70	5	30	4
....EPITHEMIA	--	-	130#	16
...DIATOMACEAE				
....DIATOMA	--	-	15	2
...FRAGILARIACEAE				
....FRAGILARIA	14	1	59	7
...GOMPHONEMATACEAE				
....GOMPHONEMA	500#	33	120	14
...NAVICULACEAE				
....CALONEIS	--	-	*	0
....NAVICULA	320#	21	74	9
...NITZSCHIACEAE				
....NITZSCHIA	110	8	74	9
...SURIRELLACEAE				
....SURIRELLA	56	4	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
.MYXOPHYCEAE				
..CHROOCOCCALES				
...CHROOCOCCACEAE				
....ANACYSTIS	--	-	*	0
..OSCILLATORIALES				
...OSCILLATORIACEAE				
....OSCILLATORIA	--	-	*	0

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JULY 9, 1976
1300 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
O	....ANKISTRODESMUS	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	..ULOTHRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
O	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
E	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....ASTERIONELLA	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....CYMATOPLEURA	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..CHROOCOCCALES	COCCOID
	...CHROOCOCCACEAE	
O	....AGMENELLUM	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	
O	....OSCILLATORIA	
O	....SPIRULINA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JULY 22, 1976
0900 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...HYDRODICTYACEAE	
O	....PEDIASTRUM	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....COSMARIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
E	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
O	....EPITHEMIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....ASTERIONELLA	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....GYROSIGMA	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....CYMATOPLEURA	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..CHROOCOCCALES	COCCOID
	...CHROOCOCCACEAE	
O	....AGMENELLUM	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....LYNGBYA	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09217010 GREEN RIVER BELOW GREEN RIVER, WY

LOCATION.--Lat 41°29'46", long 109°26'17", in SW¼SE¼NW¼ sec.36, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, at bridge on county road, 1.7 mi (2.7 km) downstream from Bitter Creek, 2.7 mi (4.3 km) southeast of town of Green River, and 3.3 mi (5.3 km) upstream from Logan Draw.

PERIOD OF RECORD.--Water years 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 20...	1400	972	650	8.8	11.0	2	12.0	2.6	1240	220	86	53
NOV 18...	1300	1000	550	8.7	1.5	3	12.1	2.4	88	220	77	54
DEC 18...	1330	A1000	620	8.1	.0	3	12.2	1.3	160	240	78	59
JAN 20...	1330	A1250	620	8.1	.0	3	11.2	2.2	340	230	71	60
FEB 17...	1300	A1090	600	8.1	.0	9	10.1	2.5	700	240	81	61
MAR 19...	1130	2360	680	8.1	3.0	170	10.4	4.9	790	210	60	53
APR 21...	1545	2140	650	8.2	7.5	30	10.1	2.6	760	230	71	55
MAY 24...	1130	6870	500	8.2	13.5	45	10.2	4.0	370	--	--	--
JUN 23...	1110	3310	390	8.1	13.0	50	8.0	8.8	B1700	150	31	37
JUL 21...	1130	3470	400	8.2	19.0	2	8.0	4.1	230	170	37	43
AUG 18...	1230	1660	530	8.4	18.0	6	8.2	2.5	B160	200	62	49
SEP 16...	0930	778	750	8.2	14.5	1	8.0	1.6	820	230	98	55

A Daily mean discharge.
B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT 20...	22	53	1.5	1.7	136	15	137	180	5.8	.2	3.5
NOV 18...	21	53	1.6	1.8	153	11	144	180	8.9	.3	4.5
DEC 18...	22	52	1.5	1.9	195	0	160	180	9.5	.2	6.8
JAN 20...	20	43	1.2	2.1	197	0	162	170	7.7	.3	6.0
FEB 17...	22	44	1.2	2.1	197	0	162	160	7.8	.3	6.1
MAR 19...	19	66	2.0	2.4	184	0	151	190	8.9	.2	6.7
APR 21...	22	44	1.3	2.5	191	0	157	140	11	.3	5.3
MAY 24...	--	--	--	--	--	0	--	--	--	--	--
JUN 23...	13	24	.9	1.5	140	0	115	81	6.8	.2	6.3
JUL 21...	14	23	.8	1.8	156	0	128	77	5.1	.2	5.3
AUG 18...	18	36	1.1	1.9	164	0	135	120	7.4	.3	3.4
SEP 16...	23	63	1.8	2.1	164	0	135	220	11	.2	1.8

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT 20...	401	.55	1050	.02	.02	.06	.08	.10	.04	60	0
NOV 18...	410	.56	1110	.08	.04	.84	.88	.96	.05	80	30
DEC 18...	428	.58	1160	.15	.05	.42	.47	.62	.03	70	10
JAN 20...	406	.55	1370	.17	.05	.33	.38	.55	.04	0	10
FEB 17...	400	.54	1180	.21	.05	.56	.61	.82	.08	60	0
MAR 19...	437	.59	2780	.19	.10	1.1	1.2	1.4	.50	60	70
APR 21...	374	.51	2160	.08	.04	.87	.91	.99	.15	70	20
MAY 24...	--	--	--	.11	.09	.91	1.0	1.1	.10	--	--
JUN 23...	239	.33	2140	.10	.05	.55	.60	.70	.08	60	10
JUL 21...	246	.33	2300	.07	.03	.54	.57	.64	.03	50	20
AUG 18...	317	.43	1420	.04	.08	.38	.46	.50	.03	60	20
SEP 16...	457	.62	960	.01	.03	.24	.27	.28	.01	80	20

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	SUS-PENDED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	SUS-PENDED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)
OCT 20...	1400	100	100	0	0	0	0	10	10	0	0	0
JAN 20...	1330	140	140	0	0	0	0	0	0	0	<10	<9
APR 21...	1545	830	830	0	2	1	1	0	0	0	<10	<8
JUL 21...	1130	200	190	10	2	1	1	0	0	0	<10	<9

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)
OCT 20...	1	20	20	0	0	0	1	50	0	0	2	10
JAN 20...	1	0	0	0	10	9	1	150	<100	<97	3	10
APR 21...	2	10	10	0	10	7	3	1000	<100	<94	6	30
JUL 21...	1	0	0	0	10	7	3	300	<100	<100	0	10

DATE	SUS-PENDED LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	SUS-PENDED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)
OCT 20...	0	10	10	0	10	.1	.0	.1	2	0	2
JAN 20...	0	10	20	10	10	.0	.0	.0	2	1	1
APR 21...	20	10	50	50	0	.0	.0	.0	2	2	0
JUL 21...	0	10	20	10	10	.0	.0	.0	2	0	4

DATE	TOTAL NICKEL (NI) (UG/L)	SUS-PENDED NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 20...	0	0	3	1	1	0	.5	10	0	10	3.9
JAN 20...	<50	<46	4	0	0	0	1.0	--	--	0	3.5
APR 21...	<50	<47	3	0	0	0	.6	10	10	0	7.1
JUL 21...	<50	<50	0	0	0	0	.0	20	10	10	5.8

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)
MAY												
24...	1130	6870	340	89	<4.3	6.4	5.3	4.2	4.2	3.3	.05	1.7
SEP												
21...	1330	950	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	POLYCHLORINATED NAPHTHALENES (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLORDANE (UG/L)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)
MAY												
24...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
21...	.0	0	.00	.00	.0	.0	0	.00	.0	.00	.0	.00

DATE	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	TOTAL LINDANE (UG/L)
MAY												
24...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
21...	.0	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL METHYL TRITHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
MAY											
24...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	.0	.00	.00	.00	.00	0	0	.00	.00	.00	.00

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'53", long 110°34'38", in NW¼SW¼ sec.27, T.3 N., R.12 E., Summit County, UT, Hydrologic Unit 14140107, on left bank 1 mi (2 km) downstream from East Fork, 2.5 mi (4.0 km) south of Utah-Wyoming State line, and 17 mi (27 km) south of Robertson.

DRAINAGE AREA.--130 mi² (337 km²), approximately.

PERIOD OF RECORD.--October 1937 to July 1939 (published as "at Blacks Fork Ranger Station"), July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,803.8 ft (2,683.40 m) above mean sea level (levels by Bureau of Reclamation). Prior to July 29, 1966, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. No diversion above station.

AVERAGE DISCHARGE.--11 years (water years 1938, 1967-76), 167 ft³/s (4.73 m³/s), 121,000 acre-ft/yr (149 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,160 ft³/s (61.2 m³/s) June 6, 1968, July 11, 1975; maximum gage height, 4.91 ft (1.500 m) June 6, 1968; minimum discharge indicated, 13 ft³/s (0.37 m³/s) Feb. 25, 1968, Jan. 22, 23, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 851 ft³/s (24.1 m³/s) June 3, gage height, 2.44 ft (0.744 m), no peak above base of 1,000 ft³/s (28.3 m³/s); minimum indicated, 13 ft³/s (0.37 m³/s) Jan. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	46	35	30	20	21	27	60	562	265	96	35
2	46	44	35	30	20	21	27	85	683	270	94	34
3	45	46	35	30	20	21	27	100	697	246	107	33
4	43	44	35	30	20	21	28	110	687	232	98	31
5	42	43	34	31	20	21	28	100	660	225	85	30
6	42	40	32	33	20	22	29	100	656	215	75	31
7	43	40	32	33	20	22	29	110	629	196	68	46
8	48	40	31	31	20	22	29	120	639	192	64	38
9	49	40	33	30	20	22	30	120	642	189	63	34
10	51	40	31	27	20	22	30	140	560	184	59	33
11	49	40	30	27	20	23	30	190	471	180	58	33
12	47	39	30	26	20	23	30	210	367	179	56	39
13	49	40	30	24	20	23	30	240	325	166	53	38
14	49	40	30	24	20	23	30	320	307	153	52	38
15	53	40	30	22	20	23	30	400	274	143	49	37
16	52	40	31	22	20	24	30	400	262	135	48	35
17	51	40	30	22	20	24	31	490	245	134	46	33
18	53	39	30	21	20	24	31	586	222	151	45	33
19	48	39	30	18	20	24	31	630	231	141	53	34
20	44	39	30	17	20	24	31	653	307	127	44	35
21	44	38	30	16	20	25	31	593	364	126	43	34
22	46	38	30	14	20	25	35	508	359	118	42	48
23	37	38	30	14	20	25	40	456	297	109	58	46
24	48	37	30	15	20	25	50	473	245	104	48	44
25	50	37	30	15	20	25	50	411	236	101	43	42
26	50	37	30	16	20	26	50	378	238	106	42	48
27	45	36	30	17	20	26	75	474	235	97	42	43
28	50	36	30	18	20	26	50	634	262	90	38	40
29	50	36	30	19	20	26	40	637	270	88	37	38
30	51	36	30	20	---	26	45	489	253	123	36	37
31	42	---	30	20	---	26	---	466	---	115	36	---
TOTAL	1464	1188	964	712	580	731	1054	10683	12185	4900	1778	1120
MEAN	47.2	39.6	31.1	23.0	20.0	23.6	35.1	345	406	158	57.4	37.3
MAX	53	46	35	33	20	26	75	653	697	270	107	48
MIN	37	36	30	14	20	21	27	60	222	88	36	30
AC-FT	2900	2360	1910	1410	1150	1450	2090	21190	24170	9720	3530	2220

CAL YR 1975 TOTAL 75624 MEAN 207 MAX 1560 MIN 15 AC-FT 150000
WTR YR 1976 TOTAL 37359 MEAN 102 MAX 697 MIN 14 AC-FT 74100

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW¼NE¼SW¼ sec.11, T.12 N., R.117 W., Uinta County, Hydrologic Unit 14040107, on left bank 0.4 mi (0.6 km) downstream from Meeks Cabin Dam, 2.7 mi (4.3 km) north of Utah-Wyoming State line, and 17 mi (27.4 km) southwest of Millburne.

DRAINAGE AREA.--152 mi² (394 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1939 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 929: 1940.

GAGE.--Water-stage recorder. Datum of gage is 8,512.27 ft (2,594.540 m) above mean sea level (Bureau of Reclamation bench mark). Prior to Oct. 1, 1971, at several sites about 2.0 mi (3.2 km) downstream at various datums.

REMARKS.--Records good except those for period of no gage-height record, Aug. 18 to Sept. 19, which are fair. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), since June 1971. No diversion above station.

AVERAGE DISCHARGE.--37 years, 162 ft³/s (4.588 m³/s), 117,400 acre-ft/yr (145 hm³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft³/s (71.6 m³/s) June 7, 1957, from rating curve extended above 1,500 ft³/s (42.5 m³/s); maximum gage height, 6.46 ft (1.969 m) in gage well, 6.76 ft (2.060 m) from floodmarks, June 12, 1965, site and datum then in use; minimum daily discharge, 3.7 ft³/s (0.10 m³/s) Nov. 12, 1970, due to regulation by Meeks Cabin Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 795 ft³/s (22.5 m³/s) June 3, gage height, 4.15 ft (1.265 m); minimum daily, 32 ft³/s (0.91 m³/s) Mar. 10-17, Mar. 31 to Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	100	48	45	45	33	32	33	644	432	213	84
2	142	100	48	45	45	33	32	33	696	444	210	84
3	142	100	48	45	45	33	32	33	741	474	170	84
4	142	100	48	45	45	33	32	33	777	468	140	84
5	142	85	47	45	45	33	32	33	777	462	140	84
6	142	71	47	45	46	33	32	38	777	456	142	84
7	142	71	47	45	46	33	32	38	777	444	142	84
8	142	71	47	45	46	33	32	38	777	438	140	84
9	142	71	47	45	46	33	32	38	777	462	140	84
10	142	71	47	45	46	32	32	39	777	480	108	84
11	142	71	47	45	46	32	32	39	750	480	86	84
12	142	71	47	45	39	32	32	40	723	480	84	80
13	142	70	47	45	34	32	32	39	723	462	84	76
14	140	70	47	45	34	32	32	52	483	462	84	72
15	140	70	46	45	34	32	32	67	279	460	84	72
16	138	70	46	45	33	32	32	67	279	450	88	72
17	138	60	46	45	33	32	32	110	248	430	96	72
18	138	49	46	45	33	33	33	227	216	430	107	72
19	138	49	46	45	33	33	33	408	216	430	107	72
20	138	49	46	45	33	33	33	510	216	360	107	64
21	170	49	46	45	33	33	33	538	216	280	107	58
22	200	49	46	45	33	33	33	580	286	280	107	54
23	200	49	46	45	33	33	33	580	350	280	107	54
24	200	49	46	46	33	33	33	580	355	280	100	54
25	200	49	46	46	33	33	33	566	322	280	94	53
26	200	49	46	46	33	33	33	559	287	280	94	53
27	200	49	46	45	33	33	33	559	287	250	94	53
28	200	49	45	45	33	33	33	566	287	216	94	49
29	200	49	45	45	33	33	33	588	363	216	94	47
30	200	49	45	45	---	33	33	588	432	216	94	47
31	150	---	45	45	---	32	---	588	---	216	88	---
TOTAL	4957	1959	1440	1398	1104	1014	973	8207	14838	11798	3545	2098
MEAN	160	65.3	46.5	45.1	38.1	32.7	32.4	265	495	381	114	69.9
MAX	200	100	48	46	46	33	33	588	777	480	213	84
MIN	138	49	45	45	33	32	32	33	216	216	84	47
AC-FT	9830	3890	2860	2770	2190	2010	1930	16280	29430	23400	7030	4160

CAL YR 1975 TOTAL 83566 MEAN 229 MAX 1760 MIN 21 AC-FT 165800
WTR YR 1976 TOTAL 53331 MEAN 146 MAX 777 MIN 32 AC-FT 105800

09218500 BLACKS FORK NEAR MILLBURNE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-70, 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT												
07...	1150	142	150	--	9.0	1	--	--	--	--	--	--
NOV												
07...	1030	71	123	--	5.0	2	--	--	--	--	--	--
DEC												
05...	1450	47	110	--	3.5	1	--	--	--	--	--	--
JAN												
21...	0820	45	120	--	1.5	1	--	--	--	--	--	--
MAR												
05...	0950	33	120	--	1.5	1	--	--	--	--	--	--
APR												
09...	0815	32	150	--	2.0	1	--	--	--	--	--	--
27...	1640	33	76	--	2.0	--	--	--	89	4	24	7.0
JUN												
01...	1630	705	40	--	4.5	4	--	--	58	5	16	4.3
17...	1140	279	80	--	6.5	3	--	--	--	--	--	--
JUL												
07...	1400	450	65	--	12.0	3	--	--	32	3	8.7	2.6
29...	1130	299	90	--	14.5	1	--	--	--	--	--	--
AUG												
23...	1700	A107	155	8.2	16.0	2	10.4	2.6	73	2	21	5.0
SEP												
01...	1300	A84	105	--	14.0	1	--	--	52	2	15	3.6
20...	1430	64	110	--	16.0	1	--	--	--	--	--	--

A Daily mean discharge.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT											
07...	--	--	--	--	--	--	--	--	--	--	--
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	--	--	--	--	--	--	--	--	--	--	--
MAR											
05...	--	--	--	--	--	--	--	--	--	--	--
APR											
09...	--	--	--	--	--	--	--	--	--	--	--
27...	2.1	.1	.7	103	--	84	7.4	.8	.1	4.7	98
JUN											
01...	1.4	.1	1.0	64	--	53	3.0	1.4	.1	4.8	64
17...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	1.0	.1	.4	36	--	30	4.3	.8	.0	3.2	39
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
23...	1.9	.1	1.0	86	0	71	5.4	.9	.1	4.0	82
SEP											
01...	1.3	.1	.5	61	--	50	6.2	1.1	.1	3.2	61
20...	--	--	--	--	--	--	--	--	--	--	--

09218500 BLACKS FORK NEAR MILLBURNE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
OCT 07...	--	--	--	--	--	--	--	--	--	--	--
NOV 07...	--	--	--	--	--	--	--	--	--	--	--
DEC 05...	--	--	--	--	--	--	--	--	--	--	--
JAN 21...	--	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--	--
APR 09...	--	--	--	--	--	--	--	--	--	--	--
27...	.13	8.73	--	.17	--	--	--	--	--	--	--
JUN 01...	.09	122	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	.05	47.4	--	.06	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
AUG 23...	.11	23.7	.06	.00	.19	.02	.74	.81	.93	.83	.99
SEP 01...	.08	13.8	--	.02	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 07...	--	--	--	--	--	--	--	--	2	.77	--
NOV 07...	--	--	--	--	--	--	--	--	2	.38	--
DEC 05...	--	--	--	--	--	--	--	--	4	.51	--
JAN 21...	--	--	--	--	--	--	--	--	2	.24	--
MAR 05...	--	--	--	--	--	--	--	--	7	.62	--
APR 09...	--	--	--	--	--	--	--	--	354	31	28
27...	--	--	--	--	9	90	--	--	4	.36	--
JUN 01...	--	--	--	--	10	110	--	--	6	11	48
17...	--	--	--	--	--	--	--	--	25	19	54
JUL 07...	--	--	--	--	20	120	--	--	9	11	46
29...	--	--	--	--	--	--	--	--	6	4.8	84
AUG 23...	.01	.00	.00	.00	10	120	1100	.4	3	.87	--
SEP 01...	--	--	--	--	10	40	--	--	17	3.9	57
20...	--	--	--	--	--	--	--	--	13	2.2	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)
AUG 23...	1700	160	0	0	0	100	100	1	<10	0	0	10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)
AUG 23...	0	340	<100	2	20	10	.0	.0	1	0	0	0

DATE	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
AUG 23...	<10	0	10	0	1.5	<.4	2.5	2.0	.5	.05	.5

09218500 BLACKS FORK NEAR MILLBURNE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	AUG 23.76
TIME	1700
TOTAL CELLS/ML	1100
DIVERSITY: DIVISION	0.2
.CLASS	0.2
..ORDER	0.2
...FAMILY	2.4
....GENUS	2.4

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	34	4
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	440#	41
...CYMBELLACEAE		
....CYMBELLA	130	13
...DIATOMACEAE		
....DIATOMA	130	13
...FRAGILARIACEAE		
....SYNEDRA	100	10
...NAVICULACEAE		
....NAVICULA	67	7
...NITZSCHIACEAE		
....NITZSCHIA	170#	16

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM. MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON ANALYSES

AUG. 23. 1976
1700 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_	_COMMON__NAME_
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
O	....COSMARIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
E	....ACHNANTHES	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
O	....STAURONEIS	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....CYMATOPLEURA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING. 200-X MICROSCOPE

09220000 EAST FORK OF SMITH FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¼NW¼NE¼ sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft (18 m) downstream from bridge, 1.0 mi (1.6 km) upstream from Gilbert Creek, and 9.0 mi (14.5 km) south of Robertson.

DRAINAGE AREA.--53.0 mi² (137.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 979: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,470 ft (2,582 m), from topographic map. Prior to July 12, 1957, at datum 3.96 ft (1.207 m) higher.

REMARKS.--Records good. No diversion above station.

COOPERATION.--Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

AVERAGE DISCHARGE.--32 years (water years 1940-71), 47.1 ft³/s (1.334 m³/s), 34,120 acre-ft/yr (42.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s (41.1 m³/s) June 10, 1965, gage height, 6.75 ft (2.057 m); no flow part of each day Apr. 17-22, 24, 25, 1950; minimum gage height, 3.26 ft (0.994 m), present datum, Apr. 22, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 273 ft³/s (7.73 m³/s) May 20, gage height, 5.18 ft (1.579 m), no peak above base of 300 ft³/s (8.50 m³/s); minimum daily during period of operation, 9.6 ft³/s (0.27 m³/s) Sept. 4-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								10	146	66	31	11
2								15	180	72	32	10
3								25	180	68	39	10
4								38	182	65	34	9.6
5								36	178	63	29	9.6
6								35	178	61	25	9.6
7								40	160	59	22	14
8								46	144	58	20	14
9								46	165	55	20	12
10								47	142	54	19	11
11								58	120	53	18	11
12								65	97	55	18	12
13								68	83	50	17	13
14								87	80	48	16	14
15								131	77	45	14	13
16								139	70	42	14	12
17								168	70	42	13	12
18								209	71	43	13	11
19								224	64	43	14	12
20								233	72	40	13	12
21								212	94	40	13	10
22								180	94	37	13	12
23								155	82	34	18	14
24								168	66	33	18	14
25								129	61	31	15	14
26								108	63	41	14	14
27								118	60	37	13	14
28								180	63	32	12	13
29								200	65	31	12	12
30								139	64	35	12	12
31								120	---	36	11	---
TOTAL								3429	3171	1469	572	361.8
MEAN								111	106	47.4	18.5	12.1
MAX								233	182	72	39	14
MIN								10	60	31	11	9.6
AC-FT								6800	6290	2910	1130	718

09220000 EAST FORK OF SMITH FORK NEAR ROBERTSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
APR 28...	0910	6.8	128	.0	2	64	0	19	3.9	3.4	.2	1.4
JUN 02...	1045	180	<50	5.5	4	19	7	6.1	.8	1.3	.1	.5
JUL 07...	0805	61	<50	10.0	2	18	3	5.0	1.4	1.3	.1	.4
30...	0900	35	<50	12.5	2	--	--	--	--	--	--	--
SEP 02...	0900	11	65	8.0	2	33	0	10	2.0	1.9	.1	.5

DATE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
APR 28...	82	67	3.0	2.5	.1	8.4	83	.11	1.52	.19	20	410
JUN 02...	14	11	6.6	1.5	.1	3.5	28	.04	13.6	.04	40	140
JUL 07...	18	15	3.7	.6	.0	3.0	25	.03	4.12	.00	20	290
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 02...	40	33	3.7	.7	.1	4.2	47	.06	1.40	.89	20	240

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR 28...	0910	.0	6.8	4	.07	69
JUN 02...	1045	5.5	180	28	14	61
JUL 07...	0805	10.0	61	6	.99	--
30...	0900	12.5	35	5	.47	54
SEP 02...	0900	8.0	11	32	.95	34

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
JUL 30...	0900	35	12.5	100	1	3	6	13	23	42

09220500 WEST FORK OF SMITH FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°01'20", long 110°28'43", in SE¼NW¼NW¼ sec.15, T.12 N., R.116 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 0.8 mi (1.3 km) downstream from Archie Creek and 11.6 mi (18.7 km) southwest of Robertson.

DRAINAGE AREA.--37.2 mi² (96.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 929: 1940. WSP 1343, 1733: 1943.

GAGE.--Water-stage recorder. Datum of gage is 8,615.0 ft (2,625.85 m) above mean sea level. July 13, 1939, to August 16, 1949, at site 75 ft (23 m) upstream at datum 2.00 ft (0.610 m) higher; Aug. 17, 1949, to June 13, 1965, at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records poor. No diversion above station.

COOPERATION.--Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

AVERAGE DISCHARGE.--32 years (water years 1940-71), 21.5 ft³/s (0.609 m³/s), 15,580 acre-ft/yr (19.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s (59.5 m³/s) June 10, 1965, gage height, 3.20 ft (0.975 m), in gage well, 3.60 ft (1.097 m), from floodmarks, datum then in use; minimum observed, 0.2 ft³/s (0.006 m³/s) Aug. 13, 1940, Feb. 25, 1941 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 280 ft³/s (7.93 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 17	1930	*399	11.3	2.82	0.860

Minimum daily discharge during period of operation, 0.93 ft³/s (0.03 m³/s) Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								23	72	12	8.7	1.6
2								30	65	11	8.5	1.5
3								42	65	10	14	1.4
4								46	62	9.1	9.4	1.3
5								37	57	8.4	6.5	1.5
6								33	52	8.4	4.8	1.9
7								32	44	7.6	4.1	4.1
8								38	40	6.5	3.6	4.4
9								39	38	6.2	3.4	3.1
10								52	32	5.7	3.1	2.4
11								83	31	6.2	3.4	2.6
12								86	27	6.7	3.1	2.5
13								111	28	6.2	2.8	2.6
14								179	31	5.5	3.2	2.1
15								174	28	5.2	2.8	1.6
16								151	27	4.6	2.0	1.2
17								211	26	5.7	1.8	.93
18								232	23	7.3	1.8	.99
19								221	18	6.7	2.2	1.1
20								189	17	5.5	1.8	1.5
21								189	19	5.7	1.6	1.3
22								148	20	5.7	1.7	1.4
23								135	21	4.6	4.6	1.7
24								110	16	3.9	3.4	2.0
25								106	14	3.7	2.6	1.7
26								80	13	5.9	2.5	1.6
27								88	12	5.0	2.6	1.4
28								97	11	3.6	2.5	1.1
29								101	12	3.9	2.1	1.0
30								80	12	15	1.8	1.0
31								68	---	16	1.6	---
TOTAL								3211	933	217.5	118.0	54.52
MEAN								104	31.1	7.02	3.81	1.82
MAX								232	72	16	14	4.4
MIN								23	11	3.6	1.6	.93
AC-FT								6370	1850	431	234	108

09220500 WEST FORK OF SMITH FORK NEAR ROBERTSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
APR												
27...	1330	21	170	.0	5	93	0	27	6.2	3.2	.1	1.1
JUN												
01...	1715	64	70	14.0	5	34	6	10	2.1	1.7	.1	.7
JUL												
07...	1035	8.1	110	13.0	2	52	0	15	3.6	1.9	.1	.7
29...	1600	4.6	140	18.0	2	--	--	--	--	--	--	--
SEP												
01...	1600	1.7	190	18.5	2	99	7	29	6.5	3.2	.1	1.0

DATE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
APR												
27...	117	96	3.9	2.1	.1	8.0	110	.15	6.30	.11	50	180
JUN												
01...	34	28	4.1	1.8	.1	5.0	43	.06	7.43	.03	50	170
JUL												
07...	68	56	3.3	1.1	.0	5.7	66	.09	1.44	.12	20	130
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
01...	112	92	3.9	4.9	.1	7.2	111	.15	.51	.03	30	250

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR						
27...	1330	.0	21	20	1.1	58
JUN						
01...	1715	14.0	64	18	3.1	66
JUL						
07...	1035	13.0	8.1	21	.46	63
29...	1600	18.0	4.6	10	.12	60
SEP						
01...	1600	18.5	1.7	47	.22	60

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
JUL										
29...	1600	4.6	18.0	100	0	2	4	13	34	72

09221650 SMITHS FORK NEAR LYMAN, WY

LOCATION.--Lat 41°22'31", long 110°12'14", in SW¼SE¼SE¼ sec.12, T.16 N., R.114 W., Uinta County, Hydrologic Unit 14040107, at bridge on U.S. Highway 30S, 1.5 mi (2.4 km) downstream from Cottonwood Creek, 1.6 mi (2.6 km) upstream from bridge on Interstate Highway 80, 2.4 mi (3.9 km) upstream from mouth, and 5.7 mi (9.2 km) northeast of Lyman.

PERIOD OF RECORD.--Water years 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 21...	1330	22	1000	10.0	2	9.8	220	220	0	59
NOV 19...	1345	48	900	1.0	15	10.7	B12	220	5	62
DEC 19...	1330	15	860	.5	10	12.0	85	240	4	70
JAN 21...	1315	21	790	.0	15	11.4	B10	210	2	61
FEB 18...	1100	E15	680	.0	50	11.2	42	220	13	59
MAR 21...	1330	110	640	.5	100	11.0	82	160	0	48
APR 22...	1330	58	800	11.5	140	8.7	84	200	0	57
MAY 26...	1515	198	750	16.0	30	9.6	66	190	6	52
JUN 24...	1400	68	1190	15.0	100	8.0	B470	230	0	58
JUL 22...	1300	23	1520	24.0	1	9.9	92	240	0	57
AUG 19...	1200	2.2	2200	20.0	10	8.9	82	230	0	51
SEP 16...	1345	1.5	2400	20.0	20	9.3	110	200	0	40

E Estimate.
B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT 21...	17	150	4.4	3.5	277	227	200	82	.5
NOV 19...	16	120	3.5	3.0	263	216	150	76	.2
DEC 19...	16	95	2.7	2.7	289	237	120	65	.4
JAN 21...	14	84	2.5	2.9	254	208	110	63	.3
FEB 18...	17	69	2.0	2.6	249	204	90	59	.3
MAR 21...	10	73	2.5	3.8	211	173	80	48	.3
APR 22...	14	84	2.6	3.5	258	212	94	62	.3
MAY 26...	15	88	2.8	3.7	226	185	110	57	.3
JUN 24...	20	190	5.5	4.9	329	270	210	110	.4
JUL 22...	23	270	7.6	4.1	361	296	370	110	.9
AUG 19...	24	380	11	3.2	370	303	550	140	1.4
SEP 16...	25	440	13	3.6	358	294	610	160	1.5

09221650 SMITHS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 21...	11	660	.90	39.2	.08	--	--	--	--
NOV 19...	14	572	.78	74.1	.16	--	--	--	--
DEC 19...	14	527	.72	21.3	.17	--	--	--	--
JAN 21...	12	473	.64	26.8	.06	--	--	--	--
FEB 18...	12	432	.59	17.5	.01	.16	417	17	--
MAR 21...	11	379	.52	113	.09	.67	810	261	87
APR 22...	12	454	.62	71.1	.02	.33	835	131	62
MAY 26...	15	453	.62	242	.03	.03	172	92	64
JUN 24...	17	773	1.05	142	.00	.03	639	117	96
JUL 22...	11	1020	1.39	63.3	.04	.05	29	1.8	76
AUG 19...	4.8	1340	1.82	7.96	.03	.08	92	.55	97
SEP 16...	6.2	1460	1.99	5.91	.04	.07	223	.90	99

DATE	TIME	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ANTI-MONY (SB) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT 21...	1330	0	0	4	10	260	1	5	0	10
NOV 19...	1345	--	--	--	--	190	--	--	--	--
DEC 19...	1330	--	--	--	--	170	--	--	--	--
JAN 21...	1315	--	--	--	--	130	--	--	--	--

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 21...	0	20	10	.0	24	3	3	4.9	10
NOV 19...	--	--	--	--	--	--	--	--	--
DEC 19...	--	--	--	--	--	--	--	--	--
JAN 21...	--	--	--	--	--	--	--	--	--

09222000 BLACKS FORK NEAR LYMAN, WY

LOCATION.--Lat 41°27'08", long 110°10'20", in SW¼NW¼SW¼ sec.15, T.17 N., R.113 W., Uinta County, Hydrologic Unit 14040107, on left bank 200 ft (61 m) downstream from bridge on old U.S. Highway 30S, 8.5 mi (13.7 km) downstream from Smiths Fork, and 11 mi (18 km) northeast of Lyman.

DRAINAGE AREA.--821 mi^2 (2,126 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to December 1957, May 1962 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: 1947, 1948(M), 1951(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m), from topographic map. Oct. 21, 1937, to Dec. 31, 1957, at site 300 ft (91 m) downstream, at datum 1.51 ft (0.460 m) higher.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm^3), since June 1971, several smaller reservoirs, and diversions for irrigation of about 62,200 acres (252 km^2) above station.

AVERAGE DISCHARGE.--34 years, 153 ft^3/s (4.333 m^3/s), 110,800 acre-ft/yr (137 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,960 ft^3/s (225 m^3/s) June 11, 1965, gage height, 12.68 ft (3.865 m); no flow Aug. 8, 15-22, 1940, Dec. 26-28, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 576 ft^3/s (16.3 m^3/s) May 22, gage height, 6.27 ft (1.911 m); maximum gage height, 7.11 ft (2.167 m) Feb. 29 (backwater from ice); minimum daily discharge, 6.4 ft^3/s (0.18 m^3/s) Sept. 5, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	202	100	89	90	140	174	109	118	54	32	10
2	50	185	105	86	93	130	178	97	115	41	32	9.2
3	38	170	115	84	92	120	174	103	110	39	38	8.0
4	31	156	120	83	94	115	190	108	109	41	46	7.2
5	30	154	120	85	93	110	210	118	105	42	41	6.4
6	28	154	130	86	87	105	249	121	100	42	31	6.4
7	27	132	125	83	83	110	196	132	95	44	27	7.6
8	33	147	120	81	82	120	171	132	88	40	25	8.0
9	37	147	125	83	84	125	204	138	86	40	22	7.6
10	41	128	125	82	87	135	207	132	83	39	22	7.6
11	43	78	120	79	85	148	195	133	78	44	20	8.4
12	49	86	114	77	88	150	203	149	90	49	19	8.0
13	78	92	105	77	90	155	202	176	109	53	18	7.6
14	93	97	100	79	90	162	170	172	168	58	16	7.6
15	79	106	97	80	88	160	154	210	210	49	17	8.8
16	79	110	99	83	86	155	148	284	195	46	15	7.6
17	80	105	98	84	85	165	170	242	182	50	15	6.8
18	82	95	96	84	83	185	159	253	172	56	16	7.2
19	80	87	95	82	82	200	144	268	165	74	17	16
20	87	80	93	79	80	200	127	250	126	76	14	19
21	87	82	92	75	75	190	117	247	91	71	14	12
22	109	87	90	77	80	200	116	364	65	63	14	12
23	170	90	90	75	85	225	117	380	145	59	15	12
24	172	96	92	75	94	230	138	299	172	52	16	12
25	165	104	94	74	100	215	135	262	111	52	15	12
26	197	100	97	73	112	160	193	230	80	46	13	12
27	258	94	94	75	134	150	188	220	56	39	12	11
28	268	92	93	78	145	149	174	200	50	35	12	11
29	238	95	91	81	160	137	164	170	44	32	13	11
30	233	94	93	85	---	118	142	145	43	31	12	9.6
31	244	---	91	88	---	143	---	128	---	33	11	---
TOTAL	3256	3445	3219	2502	2727	4807	5109	5972	3361	1482	630	289.6
MEAN	105	115	104	80.7	94.0	155	170	193	112	47.8	20.3	9.65
MAX	268	202	130	89	160	230	249	380	210	76	46	19
MIN	27	78	90	73	75	105	116	97	43	31	11	6.4
AC-FT	6460	6830	6380	4960	5410	9530	10130	11850	6670	2940	1250	574

CAL YR 1975 TOTAL 94117.0 MEAN 258 MAX 2590 MIN 23 AC-FT 186700
WTR YR 1976 TOTAL 36799.6 MEAN 101 MAX 380 MIN 6.4 AC-FT 72990

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1962 to current year.
WATER TEMPERATURES: May 1962 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 5,140 micromhos Jan. 26, 1963; minimum daily, 352 micromhos May 22, 1973.
WATER TEMPERATURES: Maximum, 28.0°C July 20, 1970; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 4,090 micromhos Sept. 9; minimum daily, 489 micromhos May 19.
WATER TEMPERATURES: Maximum, 25.0°C July 23, Aug. 31, Sept. 1; minimum, 0.0°C on many days during November to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT												
07...	1425	27	3500	--	12.0	37	--	--	--	--	--	--
21...	1215	84	1800	--	8.0	1	9.8	--	70	630	420	160
NOV												
06...	1230	158	990	--	6.0	15	--	--	--	--	--	--
19...	1220	A87	1400	--	1.0	7	10.2	--	B4	490	290	130
DEC												
05...	1240	A120	1280	--	.0	30	--	--	--	--	--	--
19...	1230	A95	1500	--	.5	5	12.4	--	B1	510	270	130
JAN												
21...	1030	A75	1300	--	.0	5	11.6	--	B3	390	200	100
23...	1120	A75	300	--	.0	4	--	--	--	--	--	--
FEB												
18...	1145	A83	1100	--	.0	4	11.2	--	B6	400	220	99
MAR												
02...	1245	A130	550	--	.0	80	--	--	--	--	--	--
21...	1230	A190	1000	--	.5	63	11.4	--	<1	290	120	78
25...	1200	A215	550	--	1.0	600	--	--	--	--	--	--
APR												
22...	1130	116	1140	--	8.5	40	9.3	--	B10	350	140	91
MAY												
04...	1255	105	1050	--	12.0	50	--	--	--	--	--	--
25...	1145	252	950	--	13.0	45	--	--	--	--	--	--
26...	1310	223	1000	--	14.0	30	9.0	--	120	290	110	75
JUN												
17...	1520	A182	1750	--	15.5	15	--	--	--	--	--	--
24...	1200	168	1500	--	13.0	160	8.0	--	B640	490	230	130
JUL												
09...	0825	39	1900	--	16.0	1	--	--	--	--	--	--
22...	1145	63	2100	--	20.0	1	8.2	--	830	650	420	160
29...	1100	32	2400	--	17.0	1	--	--	--	--	--	--
AUG												
19...	1030	18	3400	--	16.0	1	8.2	--	46	940	760	230
23...	1300	15	1550	8.8	22.0	20	9.8	7.8	--	170	0	36
SEP												
01...	1215	11	3000	--	19.0	1	--	--	--	--	--	--
16...	1230	8.0	4400	--	16.5	1	9.3	--	46	1200	1100	290
21...	0800	12	300	--	14.0	7	--	--	--	--	--	--

A Daily mean discharge.
B Results based on colony count outside the acceptable range (non-ideal colony count).

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
21...	55	200	3.5	3.6	256	--	210	730	69	.7	8.5	--
NOV												
06...	--	--	--	--	--	--	--	--	--	--	--	--
19...	40	160	3.1	2.9	248	--	203	520	58	.9	10	--
DEC												
05...	--	--	--	--	--	--	--	--	--	--	--	--
19...	44	160	3.1	3.1	289	--	237	530	57	.5	11	--
JAN												
21...	35	120	2.6	2.7	242	--	198	420	50	.6	9.2	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
18...	38	110	2.4	2.3	230	--	189	380	46	.4	8.8	--
MAR												
02...	--	--	--	--	--	--	--	--	--	--	--	--
21...	23	110	2.8	3.5	207	--	170	290	49	.3	11	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
22...	30	110	2.6	3.2	258	--	212	290	54	.4	9.3	--
MAY												
04...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
26...	25	110	2.8	3.9	221	--	181	260	49	.4	13	--
JUN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
24...	40	220	4.3	5.0	312	--	256	600	90	.6	14	--
JUL												
09...	--	--	--	--	--	--	--	--	--	--	--	--
22...	61	250	4.3	4.1	286	--	235	790	65	.8	10	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
19...	88	400	5.7	4.5	216	--	177	1400	100	1.1	5.9	--
23...	19	300	10	4.7	329	0	270	390	120	1.6	6.3	1300
SEP												
01...	--	--	--	--	--	--	--	--	--	--	--	--
16...	120	530	6.6	6.1	177	--	145	2000	120	1.2	5.8	--
21...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
21...	1350	1.84	386	--	.00	--	--	--	--	--	--	--
NOV												
06...	--	--	--	--	--	--	--	--	--	--	--	--
19...	1050	1.43	247	--	.38	--	--	--	--	--	--	--
DEC												
05...	--	--	--	--	--	--	--	--	--	--	--	--
19...	1080	1.47	277	--	.06	--	--	--	--	--	--	--
JAN												
21...	857	1.17	174	--	.02	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
18...	799	1.09	179	--	.10	--	--	--	--	--	--	--
MAR												
02...	--	--	--	--	--	--	--	--	--	--	--	--
21...	668	.91	343	--	.12	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
22...	715	.97	224	--	.03	--	--	--	--	--	--	--
MAY												
04...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
26...	645	.88	388	--	.01	--	--	--	--	--	--	--
JUN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
24...	1250	1.70	567	--	.00	--	--	--	--	--	--	--
JUL												
09...	--	--	--	--	--	--	--	--	--	--	--	--
22...	1480	2.01	252	--	.03	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
19...	2340	3.18	114	--	.01	--	--	--	--	--	--	--
23...	1040	1.41	42.1	.03	.04	.05	.19	1.2	2.1	1.2	2.3	1.2
SEP												
01...	--	--	--	--	--	--	--	--	--	--	--	--
16...	3160	4.30	68.3	--	.03	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO SPECT. (UG/L)
OCT												
07...	--	--	--	--	--	--	154	11	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
06...	--	--	--	--	--	--	38	16	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
05...	--	--	--	--	--	--	100	32	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	21	4.3	--	--	--	--
FEB												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
02...	--	--	--	--	--	--	286	100	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	3640	2110	96	--	--	--
APR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
04...	--	--	--	--	--	--	239	68	81	--	--	--
25...	--	--	--	--	--	--	260	177	81	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
17...	--	--	--	--	--	--	218	107	58	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
09...	--	--	--	--	--	--	30	3.2	66	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	21	1.8	62	--	--	--
AUG												
19...	--	--	--	--	--	--	--	--	--	--	--	--
23...	.11	.02	.00	.00	610	.2	98	4.0	94	529	.99	.000
SEP												
01...	--	--	--	--	--	--	24	.71	51	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ANTI-MONY (SB) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
OCT												
21...	1215	--	0	0	--	3	--	--	10	320	--	0
NOV												
19...	1220	--	--	--	--	--	--	--	--	970	--	--
DEC												
19...	1230	--	--	--	--	--	--	--	--	220	--	--
JAN												
21...	1030	--	--	--	--	--	--	--	--	180	--	--
FEB												
18...	1145	--	--	--	--	--	--	--	--	150	--	--
MAR												
21...	1230	--	--	--	--	--	--	--	--	170	--	--
APR												
22...	1130	--	--	--	--	--	--	--	--	150	--	--
MAY												
26...	1310	--	--	--	--	--	--	--	--	210	--	--
JUN												
24...	1200	--	--	--	--	--	--	--	--	340	--	--
JUL												
22...	1145	--	--	--	--	--	--	--	--	460	--	--
AUG												
19...	1030	--	--	--	--	--	--	--	--	580	--	--
23...	1300	3300	30	--	13	7	100	100	--	570	<10	1
SEP												
16...	1230	--	--	--	--	--	--	--	--	700	--	--

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT												
21...	--	10	--	0	--	10	--	0	30	--	10	--
NOV												
19...	--	--	--	--	--	20	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	70	--	--	--	--	--	--
JAN												
21...	--	--	--	--	--	10	--	--	--	--	--	--
FEB												
18...	--	--	--	--	--	10	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	20	--	--	--	--	--	--
APR												
22...	--	--	--	--	--	10	--	--	--	--	--	--
MAY												
26...	--	--	--	--	--	80	--	--	--	--	--	--
JUN												
24...	--	--	--	--	--	30	--	--	--	--	--	--
JUL												
22...	--	--	--	--	--	80	--	--	--	--	--	--
AUG												
19...	--	--	--	--	--	40	--	--	--	--	--	--
23...	0	0	20	9	2800	40	<100	3	--	120	20	.0
SEP												
16...	--	--	--	--	--	30	--	--	--	--	--	--

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT											
21...	.0	--	18	3	--	3	--	--	3.4	--	10
NOV											
19...	--	--	--	--	--	--	--	--	--	--	--
DEC											
19...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
18...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
APR											
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
26...	--	--	--	--	--	--	--	--	--	--	--
JUN											
24...	--	--	--	--	--	--	--	--	--	--	--
JUL											
22...	--	--	--	--	--	--	--	--	--	--	--
AUG											
19...	--	--	--	--	--	--	--	--	--	--	--
23...	.0	29	0	--	4	4	<10	0	--	30	10
SEP											
16...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
AUG									
23...	1300	150	2.5	23	9.9	18	8.9	.10	44

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAY								
04...	1255	105	12.0	8	2	4	20	65
JUL								
29...	1100	32	17.0	30	0	2	36	82

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAY							
04...	74	78	83	89	94	98	100
JUL							
29...	89	93	96	99	100	--	--

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2460	1190	1440	1240	1000	1350	1040	1120	1290	2480	2520	3180
2	2320	1270	1510	1160	1080	1470	1150	1170	1360	2330	2800	3290
3	2220	1190	1470	1220	1080	1330	1070	1120	1440	2340	2500	3030
4	2370	1230	1410	1190	1120	1360	1020	1030	1550	2330	2500	2510
5	2570	1230	1380	1170	1160	1280	916	913	1540	2450	2520	3590
6	2610	1240	1380	1140	1120	1240	1060	821	1370	2340	2420	3780
7	2750	1280	1400	1110	1120	1150	1160	894	1540	2300	2500	3710
8	3020	1350	1320	1130	1110	1170	1140	945	1560	2200	2680	4010
9	3120	1440	1360	1090	1020	1220	1020	945	1540	2160	2790	4090
10	2870	1400	1490	1090	971	1370	918	910	1540	2120	2870	3990
11	2620	1540	1430	1120	1230	1260	875	795	1580	2100	2760	3960
12	2720	1700	1470	1080	1150	1220	886	782	1570	1930	2800	3970
13	2340	1400	1490	1080	1170	1180	832	678	1450	1950	2750	3860
14	2790	1240	1550	1060	1140	1200	865	613	1570	1930	2810	3700
15	2570	1240	1860	1060	1270	1100	945	532	1440	2000	3000	3980
16	2400	1340	1680	1050	1250	1100	1070	561	1430	1940	2840	3830
17	2310	1430	1580	1100	1160	1030	1100	603	1440	1940	3080	3700
18	2070	1460	1540	1400	1170	929	1250	525	1830	2070	3120	3700
19	1990	1520	1550	1240	1100	931	1140	489	1850	2110	3060	3620
20	1940	1540	1550	1270	1080	1030	1140	561	1880	1980	2980	2680
21	1940	1540	1480	1220	1070	1080	1120	742	2020	1990	3060	3600
22	1840	1710	1460	1160	1080	1110	1100	783	2180	2070	3060	3680
23	1520	1520	1480	1150	1090	1110	1040	1320	1620	2220	2880	3630
24	1260	1470	1400	1150	1060	1140	973	1020	1730	2160	2940	3800
25	1180	1500	1320	1120	1000	998	907	989	1930	2270	3020	3680
26	1080	1540	1150	1100	1020	1090	1010	973	2130	2230	3170	3640
27	1060	1690	1160	992	1420	1270	1240	1050	2210	2360	3050	3520
28	1070	1690	1190	1050	1420	1160	1240	1150	2240	2360	3270	3640
29	1100	1560	1250	1180	1180	1260	1260	1190	2300	2460	3240	3320
30	1110	1500	1200	1150	---	1330	1120	1180	2290	2410	3160	3620
31	1120	---	1160	636	---	1360	---	1180	---	2430	3550	---
MONTH	2080	1430	1420	1130	1130	1190	1050	890	1710	2190	2890	3610
YEAR	MAX	4090	MIN	489	MEAN	1730						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	1.0	0.0	0.0	0.0	0.0	5.0	7.0	11.0	23.0	17.0	25.0
2	8.0	2.0	0.0	0.0	0.0	0.0	1.0	9.0	12.0	23.0	15.0	22.0
3	9.0	2.0	0.0	0.0	0.0	0.0	3.0	9.0	12.0	20.0	16.0	21.0
4	14.0	2.0	0.0	0.0	0.0	0.0	5.0	9.0	14.0	17.0	17.0	14.0
5	15.0	3.0	0.0	0.0	0.0	0.0	8.0	5.0	20.0	14.0	13.0	10.0
6	16.0	3.0	0.0	0.0	0.0	0.0	4.0	8.0	16.0	16.0	15.0	12.0
7	9.0	4.0	0.0	0.0	0.0	0.0	7.0	8.0	17.0	15.0	22.0	10.0
8	5.0	2.0	0.0	0.0	0.0	0.0	8.0	9.0	20.0	14.0	15.0	6.0
9	3.0	0.0	2.0	0.0	0.0	0.0	9.0	9.0	21.0	15.0	22.0	7.0
10	3.0	0.0	0.0	0.0	0.0	0.5	4.0	10.0	20.0	15.0	20.0	8.0
11	6.0	0.0	0.0	0.0	0.0	0.0	5.0	10.0	12.0	15.0	22.0	12.0
12	4.0	0.0	0.0	0.0	0.0	0.0	5.0	7.0	8.0	15.0	23.0	11.0
13	4.0	0.0	0.0	0.0	0.0	0.0	3.0	8.0	9.0	14.0	17.0	8.0
14	3.0	1.0	0.0	0.0	0.0	0.0	3.0	11.0	3.0	15.0	13.0	11.0
15	2.0	2.0	0.0	0.0	0.0	0.0	3.0	9.0	7.0	17.0	12.0	10.0
16	3.0	3.0	0.0	0.0	0.0	0.0	4.0	8.0	11.0	16.0	11.0	11.0
17	4.0	1.0	0.0	0.0	0.0	1.0	3.0	18.0	8.0	17.0	10.0	9.0
18	5.0	0.0	0.0	0.0	0.0	2.0	3.0	18.0	10.0	17.0	13.0	9.0
19	5.0	0.0	0.0	0.0	0.0	0.0	4.0	18.0	10.0	22.0	14.0	11.0
20	5.0	0.0	0.0	0.0	0.0	0.0	5.0	17.0	12.0	22.0	13.0	17.0
21	4.0	0.0	0.0	0.0	0.0	0.0	7.0	15.0	14.0	21.0	14.0	9.0
22	5.0	0.0	0.0	0.0	0.0	0.0	8.0	10.0	13.0	24.0	15.0	8.0
23	2.0	0.0	0.0	0.0	0.0	1.0	7.0	10.0	9.0	25.0	15.0	17.0
24	3.0	0.0	0.0	0.0	0.0	0.0	8.0	10.0	10.0	17.0	12.0	17.0
25	3.0	0.0	0.0	0.0	0.0	0.0	7.0	8.0	11.0	16.0	14.0	9.0
26	5.0	0.0	0.0	0.0	0.0	0.0	7.0	7.0	20.0	15.0	15.0	8.0
27	4.0	0.0	0.0	0.0	1.0	0.0	8.0	11.0	10.0	14.0	8.0	8.0
28	4.0	0.0	0.0	0.0	1.0	0.0	10.0	10.0	24.0	14.0	10.0	7.0
29	1.0	0.0	0.0	0.0	1.0	0.0	12.0	11.0	24.0	15.0	14.0	8.0
30	1.0	0.0	0.0	0.0	---	0.0	13.0	9.0	22.0	16.0	24.0	8.0
31	1.0	---	0.0	0.0	---	1.0	---	10.0	---	16.0	25.0	---
MONTH	5.5	1.0	0.0	0.0	0.0	0.0	6.0	10.5	13.5	17.5	15.5	11.5
YEAR	MAX	25.0	MIN	0.0	MEAN	7.0						

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	AUG 23.76	
TIME	1300	
TOTAL CELLS/ML	610	
DIVERSITY: DIVISION	0.6	
.CLASS	0.6	
..ORDER	0.6	
...FAMILY	2.1	
....GENUS	2.3	
ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	44	8
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....ENTOMONEIS	*	0
...ACHNANTHACEAE		
....COCCONEIS	22	4
...CYMBELLACEAE		
....EPITHEMIA	44	8
....RHOPALODIA	44	8
...FRAGILARIACEAE		
....SYNEDRA	22	4
...NAVICULACEAE		
....GYROSIGMA	*	0
....NAVICULA	110#	18
...NITZSCHIACEAE		
....NITZSCHIA	310#	51
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	22	4

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON ANALYSES

AUG. 23. 1976
1300 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME______
	CHLOROPHYTA	GREEN ALGAE
	.CHAROPHYCEAE	STONEWORTS
	..CHARALES	
	...CHARACEAE	
E	....CHARA	
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
O	....EPITHEMIA	
E	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
E	....GYROSIGMA	
O	....MASTOGLOIA	
O	....NAVICULA	
O	....NEIDIUM	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....NOSTOC	
	...OSCILLATORIACEAE	
E	....LYNGBYA	
O	....OSCILLATORIA	
O	....SPIRULINA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY

LOCATION.--Lat 41°34'54", long 110°33'42", in NW¼SE¼SE¼ sec.31, T.19 N., R.116 W., Lincoln County, Hydrologic Unit 14040108, on left bank 0.8 mi (1.3 km) downstream from North Fork, 9.3 mi (15.0 km) south of Glencoe, and 14.6 mi (23.5 km) south of Kemmerer.

DRAINAGE AREA.--416 mi² (1,077 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,540 ft (1,993 m), from topographic map.

REMARKS.--Records poor. No diversion above station. Natural flow of stream affected by return flow from power development which diverts water into the basin from Hams Fork.

EXTREMES FOR PERIOD JULY TO SEPTEMBER.--Maximum discharge, 26 ft³/s (0.74 m³/s) Aug. 1, gage height, 2.65 ft (0.808 m); minimum daily, 3.2 ft³/s (0.09 m³/s) Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										15	17	4.7
2										11	12	3.3
3										8.5	11	4.3
4										7.4	14	4.5
5										8.1	9.8	4.2
6										5.8	8.7	5.0
7										5.8	8.5	6.1
8										6.3	8.1	5.5
9										5.8	7.8	5.2
10										5.1	6.9	5.0
11										5.2	3.7	7.1
12										9.0	4.0	7.4
13										8.8	4.0	6.9
14										7.1	4.0	6.9
15										6.4	4.0	6.7
16										7.2	4.4	5.5
17										10	4.5	5.2
18										13	4.5	5.2
19										12	4.8	5.8
20										11	5.4	7.2
21										10	4.5	8.1
22										9.8	4.5	8.1
23										9.8	5.4	6.0
24										9.8	6.3	5.4
25										9.4	5.8	4.2
26										9.2	6.3	3.2
27										8.5	6.9	3.4
28										8.1	6.4	3.7
29										7.9	6.3	4.4
30										8.1	6.3	4.7
31										11	6.1	---
TOTAL										270.1	211.9	162.9
MEAN										8.71	6.84	5.43
MAX										15	17	8.1
MIN										5.1	3.7	3.2
AC-FT										536	420	323

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1975 to September 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
NOV												
20...	0930	7.0	1250	7.8	1.0	9	9.6	--	560	430	150	45
DEC												
20...	1030	5.0	1250	7.7	.5	30	9.7	1.1	600	440	160	48
JAN												
22...	1015	4.7	910	7.6	.0	55	10.6	2.2	640	500	180	47
FEB												
19...	0845	5.0	1190	7.6	.5	35	10.2	1.6	580	430	160	43
MAR												
22...	0900	6.0	1020	7.7	.5	140	11.2	--	490	370	130	41
APR												
23...	1100	5.1	1400	8.4	7.5	50	10.6	4.7	580	470	140	55
MAY												
27...	1100	11	1320	8.2	14.0	8	9.1	4.9	570	190	70	95
JUN												
23...	1200	10	600	--	12.5	6	--	--	--	--	--	--
25...	1000	8.5	1200	8.2	12.0	15	7.5	2.0	570	290	95	82
JUL												
09...	1150	6.9	1300	--	18.0	4	--	--	--	--	--	--
23...	0945	10	970	8.1	16.0	10	7.1	2.2	430	250	83	55
28...	1630	7.8	875	--	23.5	13	--	--	--	--	--	--
AUG												
20...	0800	6.3	1250	8.1	13.0	7	7.4	1.9	550	450	130	54
SEP												
01...	0730	4.2	1250	--	14.0	4	--	--	--	--	--	--
17...	0930	6.9	1350	7.9	11.0	6	7.9	1.6	590	460	130	64

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
NOV												
20...	63	1.2	5.0	164	0	135	540	20	.6	2.7	--	909
DEC												
20...	47	.8	5.2	190	0	156	500	15	.8	3.9	--	875
JAN												
22...	80	1.0	4.6	177	0	145	590	16	.6	5.3	--	993
FEB												
19...	52	.9	4.3	176	0	144	520	16	.6	7.3	--	892
MAR												
22...	51	1.0	5.6	155	0	127	420	18	.5	5.5	--	749
APR												
23...	79	1.4	5.4	126	0	103	600	27	.5	.5	--	971
MAY												
27...	110	2.0	8.0	461	0	378	320	83	.3	8.9	1000	923
JUN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
25...	90	1.6	4.3	345	0	283	440	50	.4	5.1	--	938
JUL												
09...	--	--	--	--	--	--	--	--	--	--	--	--
23...	47	1.0	3.7	228	0	187	310	23	.4	2.6	--	638
28...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
20...	55	1.0	4.0	116	0	95	520	22	.5	.7	--	847
SEP												
01...	--	--	--	--	--	--	--	--	--	--	--	--
17...	67	1.2	5.4	161	0	132	520	29	.6	1.3	--	899

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV 20...	1.24	17.2	--	.84	.01	.86	.87	1.7	.03	25	.47	--
DEC 20...	1.19	11.8	--	.71	.07	1.0	1.1	1.8	.06	80	1.1	--
JAN 22...	1.35	12.6	--	1.2	.08	1.4	1.5	2.7	.17	134	1.7	--
FEB 19...	1.21	12.0	--	1.5	.07	.75	.82	2.3	.11	86	1.2	--
MAR 22...	1.02	12.1	--	.99	.14	1.1	1.2	2.2	.31	352	5.7	95
APR 23...	1.32	13.4	--	.10	.04	1.1	1.1	1.2	.23	228	3.1	98
MAY 27...	1.26	27.4	8	.15	.10	1.3	1.4	1.6	.06	11	.33	58
JUN 23...	--	--	--	--	--	--	--	--	--	47	1.3	65
25...	1.28	21.5	--	.13	.08	.87	.95	1.1	.05	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	36	.67	53
23...	.87	17.2	--	.07	.01	.51	.52	.59	.06	--	--	--
28...	--	--	--	--	--	--	--	--	--	50	1.1	90
AUG 20...	1.15	14.4	--	.04	.02	.66	.68	.72	.02	--	--	--
SEP 01...	--	--	--	--	--	--	--	--	--	--	--	--
17...	1.22	16.7	--	.09	.01	.73	.74	.83	.02	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
NOV 20...	0930	--	--	--	--	--	--	2100	--	--	--
DEC 20...	1030	--	--	--	--	--	--	1900	--	--	--
JAN 22...	1015	3200	0	0	0	0	0	1900	<10	2	10
FEB 19...	0845	--	--	--	--	--	--	1600	--	--	--
MAR 22...	0900	--	--	--	--	--	--	1300	--	--	--
APR 23...	1100	2800	--	2	--	10	--	1800	<10	--	0
MAY 27...	1100	--	--	--	--	--	--	250	--	--	--
JUN 25...	1000	--	--	--	--	--	--	1200	--	--	--
JUL 23...	0945	400	20	2	2	0	0	1200	<10	1	0
AUG 20...	0800	--	--	--	--	--	--	2700	--	--	--
SEP 17...	0930	--	--	--	--	--	--	2700	--	--	--

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
NOV 20...	--	--	--	--	40	--	--	--	--	--	--
DEC 20...	--	--	--	--	30	--	--	--	--	--	--
JAN 22...	0	10	4	2600	0	<100	3	60	60	160	100
FEB 19...	--	--	--	--	20	--	--	--	--	--	--
MAR 22...	--	--	--	--	30	--	--	--	--	--	--
APR 23...	--	20	--	3100	20	100	--	100	--	190	--
MAY 27...	--	--	--	--	70	--	--	--	--	--	--
JUN 25...	--	--	--	--	30	--	--	--	--	--	--
JUL 23...	0	<10	3	400	40	<100	0	70	70	20	10
AUG 20...	--	--	--	--	10	--	--	--	--	--	--
SEP 17...	--	--	--	--	20	--	--	--	--	--	--

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV 20...	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	.0	.1	13	15	<50	9	12	12	2.3	50	10
FEB 19...	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--
APR 23...	.0	--	14	--	<50	--	9	--	--	40	--
MAY 27...	--	--	--	--	--	--	--	--	--	--	--
JUN 25...	--	--	--	--	--	--	--	--	--	--	--
JUL 23...	.0	.0	8	8	<50	0	2	2	.0	20	20
AUG 20...	--	--	--	--	--	--	--	--	--	--	--
SEP 17...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
MAY 27...	1100	23	.5	15	.7	12	.7	.15	6.2

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
JUL 20...	1630	7.0	23.5	20	47	50	72

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
JUL 20...	85	88	94	98	99	100

09222400 MUDDY CREEK NEAR HAMPTON, WY

LOCATION.--Lat 41°32'17", long 110°13'43", in NW¼SW¼SW¼ sec.18, T.18 N., R.113 W., Uinta County, Hydrologic Unit 14040108, on left bank 2.0 mi (3.2 km) upstream from mouth, 2.6 mi (4.2 km) southwest of Church Buttes siding, 3.3 mi (5.3 km) downstream from Little Muddy Creek, and 4.2 mi (6.8 km) east of Hampton.

DRAINAGE AREA.--963 mi² (2,494 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,320 ft (1,926 m), from topographic map.

REMARKS.--Records good except those for October to March and period of no gage-height record, Jan. 21 to Mar. 4, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 322 ft³/s (9.12 m³/s) July 13, 1975, gage height, 3.09 ft (0.942 m); maximum gage height, 6.03 ft (1.838 m) about Mar. 1, 1976 (backwater from ice); minimum daily discharge, 2.2 ft³/s (0.062 m³/s) Sept. 28, 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 289 ft³/s (8.18 m³/s) Mar. 26, gage height, 2.97 ft (0.905 m); maximum gage height, 6.03 ft (1.838 m) about Mar. 1 (backwater from ice); minimum daily discharge, 2.2 ft³/s (0.062 m³/s) Sept. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	44	17	12	22	100	43	60	71	8.8	6.3	4.1
2	13	39	18	11	23	115	104	60	66	9.6	9.8	3.7
3	7.3	35	19	11	24	125	140	75	67	9.2	8.4	3.0
4	7.1	33	20	10	24	110	112	93	64	7.1	10	2.4
5	7.1	32	21	10	23	104	138	122	48	6.3	7.6	2.7
6	6.8	31	22	9.7	22	100	192	120	38	6.0	6.3	2.8
7	6.8	30	23	10	21	94	190	112	28	5.8	5.3	2.8
8	6.6	27	24	10	20	90	124	116	22	4.1	5.0	3.2
9	6.6	19	25	9.7	20	86	106	142	17	4.3	4.8	3.7
10	7.2	14	25	10	21	90	142	132	13	4.1	4.8	3.5
11	8.0	14	23	11	22	100	114	122	11	3.9	4.6	3.5
12	8.7	15	22	12	23	120	112	128	10	3.9	4.1	3.5
13	10	17	21	13	24	134	124	138	12	5.3	2.7	4.6
14	13	20	19	14	24	124	112	126	17	6.3	2.7	4.6
15	21	23	17	16	24	119	96	145	47	5.8	2.4	4.1
16	20	25	15	18	23	115	84	208	62	5.3	2.8	3.9
17	18	26	13	20	22	121	80	168	38	5.0	3.0	3.7
18	17	26	13	20	21	155	73	160	28	9.2	3.2	3.7
19	18	24	12	19	20	190	64	170	30	7.6	3.2	3.5
20	19	21	12	18	19	210	49	175	25	8.0	3.5	3.5
21	20	18	11	18	20	210	44	175	17	7.6	3.5	3.5
22	22	17	11	17	22	190	38	158	12	7.1	3.5	3.9
23	26	17	10	17	24	170	48	185	11	6.8	4.3	4.8
24	26	18	11	18	26	190	71	192	9.6	6.8	3.7	4.6
25	41	19	12	17	34	198	80	168	8.8	6.6	4.6	3.5
26	49	20	12	17	44	230	87	124	7.3	6.6	4.3	3.0
27	49	19	13	18	60	140	93	110	7.3	6.8	3.7	2.8
28	48	18	13	19	76	124	78	91	7.3	6.6	4.1	2.2
29	47	19	12	20	95	80	71	89	7.1	6.3	4.3	2.2
30	45	18	12	21	---	58	66	80	7.6	7.6	4.3	2.3
31	43	---	13	21	---	55	---	78	---	6.0	4.1	---
TOTAL	650.2	698	511	467.4	843	4047	2875	4022	809.0	200.4	144.9	103.3
MEAN	21.0	23.3	16.5	15.1	29.1	131	95.8	130	27.0	6.46	4.67	3.44
MAX	49	44	25	21	95	230	192	208	71	9.6	10	4.8
MIN	6.6	14	10	9.7	19	55	38	60	7.1	3.9	2.4	2.2
AC-FT	1290	1380	1010	927	1670	8030	5700	7980	1600	397	287	205

WTR YR 1976 TOTAL 15371.2 MEAN 42.0 MAX 230 MIN 2.2 AC-FT 30490

GREEN RIVER BASIN
09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT										
07...	1535	A6.8	2200	--	13.0	55	--	--	--	--
21...	1030	16	1500	8.3	6.0	35	10.3	--	540	310
NOV										
06...	1600	A31	1200	--	6.0	80	--	--	--	--
19...	1100	A24	1150	8.2	.5	42	10.5	--	440	190
DEC										
05...	1520	A21	1340	--	.0	30	--	--	--	--
19...	1030	A12	1850	8.0	.0	25	11.4	1.3	630	280
29...	1540	A12	--	--	.0	70	--	--	--	--
JAN										
20...	1540	A14	1300	--	.0	40	--	--	--	--
MAR										
04...	1710	A110	400	--	.0	220	--	--	--	--
21...	1100	A210	520	7.9	.5	370	10.8	--	180	44
24...	1850	A190	640	--	1.0	1000	--	--	--	--
APR										
08...	1520	114	920	--	11.0	480	--	--	--	--
22...	1000	39	1220	8.3	8.0	58	9.1	3.2	420	130
MAY										
04...	0950	75	900	--	10.0	260	--	--	--	--
20...	1530	185	390	--	10.0	700	--	--	--	--
26...	1100	124	610	8.2	12.5	350	9.3	3.2	220	55
JUN										
02...	1540	62	875	--	21.5	100	--	--	--	--
16...	1645	62	1450	--	18.0	110	--	--	--	--
24...	1045	9.9	1210	8.4	12.0	30	8.5	1.4	440	200
26...	1430	7.3	980	8.9	21.0	15	8.7	1.2	--	--
26...	1500	7.3	1330	8.5	21.0	3	10.1	2.1	--	--
JUL										
09...	0930	4.8	1400	--	16.0	3	--	--	--	--
22...	1000	7.1	1100	8.3	17.0	8	8.0	2.7	420	250
29...	0830	6.3	1050	--	15.0	4	--	--	--	--
AUG										
20...	1000	3.5	1400	8.3	15.0	15	8.6	2.7	560	450
SEP										
01...	1400	4.3	1400	--	24.0	1	--	--	--	--
03...	1300	3.5	1550	9.8	22.0	40	7.8	5.8	650	510
17...	1110	3.7	1420	8.2	14.0	10	8.7	1.8	610	490

A Daily mean discharge.

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT										
07...	--	--	--	--	--	--	--	--	--	--
21...	98	71	150	2.8	14	276	0	226	400	150
NOV										
06...	--	--	--	--	--	--	--	--	--	--
19...	86	54	99	2.1	9.8	297	0	244	290	94
DEC										
05...	--	--	--	--	--	--	--	--	--	--
19...	140	67	150	2.6	17	417	0	342	390	160
29...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	--	--	--
21...	38	21	41	1.3	8.6	167	0	137	98	34
24...	--	--	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
22...	80	53	100	2.1	11	352	0	289	220	110
MAY										
04...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
26...	48	24	44	1.3	5.1	199	0	163	100	40
JUN										
02...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	75	62	120	2.5	9.1	300	0	246	320	130
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUL										
09...	--	--	--	--	--	--	--	--	--	--
22...	69	61	74	1.6	4.6	216	0	177	340	44
29...	--	--	--	--	--	--	--	--	--	--
AUG										
20...	110	70	86	1.6	5.9	138	0	113	540	58
SEP										
01...	--	--	--	--	--	--	--	--	--	--
03...	130	78	100	1.7	6.6	167	0	137	620	59
17...	120	76	89	1.6	6.4	155	0	127	550	58

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)
OCT										
07...	--	--	--	--	--	--	--	--	--	--
21...	.4	2.7	--	1020	1.39	44.1	--	.01	--	.01
NOV										
06...	--	--	--	--	--	--	--	--	--	--
19...	.4	5.4	--	785	1.07	50.9	--	.19	--	.00
DEC										
05...	--	--	--	--	--	--	--	--	--	--
19...	.4	8.0	--	1140	1.55	36.9	--	.61	--	.00
29...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	--	--	--
21...	.3	5.1	--	329	.45	187	--	.17	--	.04
24...	--	--	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
22...	.4	6.5	--	755	1.03	79.5	--	.15	--	.04
MAY										
04...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
26...	.2	7.2	400	367	.50	123	260	.38	--	.02
JUN										
02...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	.3	6.5	--	872	1.19	23.3	--	.13	--	.10
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUL										
09...	--	--	--	--	--	--	--	--	--	--
22...	.5	1.2	--	702	.95	13.5	--	.03	--	.00
29...	--	--	--	--	--	--	--	--	--	--
AUG										
20...	.5	.5	--	941	1.28	8.89	--	.01	--	.01
SEP										
01...	--	--	--	--	--	--	--	--	--	--
03...	.6	1.1	1400	1080	1.47	10.2	--	.06	.02	.28
17...	.6	.8	--	972	1.32	9.71	--	.06	--	.03

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
OCT										
07...	--	--	--	--	--	--	--	--	--	--
21...	--	.91	--	.92	--	.93	.10	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
19...	--	.80	--	.80	--	.99	.08	--	--	--
DEC										
05...	--	--	--	--	--	--	--	--	--	--
19...	--	.86	--	.86	--	1.5	.06	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	--	--	--
21...	--	1.5	--	1.5	--	1.7	1.2	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
22...	--	.88	--	.92	--	1.1	.46	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
26...	--	1.1	--	1.1	--	1.5	.43	--	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	.90	--	1.0	--	1.1	.08	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUL										
09...	--	--	--	--	--	--	--	--	--	--
22...	--	.40	--	.48	--	.43	.03	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
AUG										
20...	--	.92	--	.93	--	.94	.06	--	--	--
SEP										
01...	--	--	--	--	--	--	--	--	--	--
03...	.23	1.1	1.2	1.4	1.4	1.5	.09	.00	.00	.00
17...	--	.75	--	.78	--	.84	.09	--	--	--

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
OCT										
07...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
DEC										
05...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JAN										
20...	--	--	--	--	--	--	--	--	--	--
MAR										
04...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUN										
02...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
26...	3400	1.0	--	--	--	--	--	--	--	--
26...	610	--	--	--	--	--	--	--	--	--
JUL										
09...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
AUG										
20...	--	--	--	--	--	--	--	--	--	--
SEP										
01...	--	--	--	--	--	--	--	--	--	--
03...	1100	.2	33.0	53.4	179	28.3	.028	.000	1.08	.070
17...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT										
21...	1030	1300	10	3	9	--	--	0	0	1000
NOV										
19...	1100	--	--	--	--	--	--	--	--	50
DEC										
19...	1030	--	--	--	--	--	--	--	--	1100
MAR										
21...	1100	16000	--	11	--	--	--	0	--	210
APR										
22...	1000	5700	--	5	--	--	--	10	--	390
MAY										
20...	1100	--	--	--	--	--	--	--	--	170
JUN										
24...	1045	--	--	--	--	--	--	--	--	860
JUL										
22...	1000	370	--	3	--	--	--	0	--	1100
AUG										
20...	1000	--	--	--	--	--	--	--	--	2300
SEP										
03...	1300	720	30	2	2	100	0	--	--	2500
17...	1110	--	--	--	--	--	--	--	--	2700

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)
OCT									
21...	0	0	30	15	10	0	1100	20	<100
NOV									
19...	--	--	--	--	--	--	--	50	--
DEC									
19...	--	--	--	--	--	--	--	10	--
MAR									
21...	<10	--	20	--	30	--	16000	90	100
APR									
22...	<10	--	20	--	20	--	5900	10	<100
MAY									
26...	--	--	--	--	--	--	--	40	--
JUN									
24...	--	--	--	--	--	--	--	20	--
JUL									
22...	<10	--	0	--	<10	--	290	30	<100
AUG									
20...	--	--	--	--	--	--	--	20	--
SEP									
03...	<10	1	0	0	10	1	490	30	<100
17...	--	--	--	--	--	--	--	30	--

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)
OCT									
21...	1	180	190	30	10	.0	.0	10	12
NOV									
19...	--	--	--	--	--	--	--	--	--
DEC									
19...	--	--	--	--	--	--	--	--	--
MAR									
21...	--	70	--	360	--	.0	--	4	--
APR									
22...	--	180	--	180	--	.0	--	5	--
MAY									
26...	--	--	--	--	--	--	--	--	--
JUN									
24...	--	--	--	--	--	--	--	--	--
JUL									
22...	--	90	--	20	--	.0	--	5	--
AUG									
20...	--	--	--	--	--	--	--	--	--
SEP									
03...	3	--	--	40	20	.0	.0	13	12
17...	--	--	--	--	--	--	--	--	--

DATE	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT									
21...	0	6	3	3	--	--	3.0	20	5
NOV									
19...	--	--	--	--	--	--	--	--	--
DEC									
19...	--	--	--	--	--	--	--	--	--
MAR									
21...	50	--	2	--	--	--	--	110	--
APR									
22...	<50	--	2	--	--	--	--	60	--
MAY									
26...	--	--	--	--	--	--	--	--	--
JUN									
24...	--	--	--	--	--	--	--	--	--
JUL									
22...	<50	--	1	--	--	--	--	20	--
AUG									
20...	--	--	--	--	--	--	--	--	--
SEP									
03...	--	--	2	2	<10	0	--	10	0
17...	--	--	--	--	--	--	--	--	--

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
MAY 26...	1100	<5.4	15	7.2	9.2	5.7	7.3	.10	2.4
SEP 03...	1300	23	.5	12	1.6	11	1.4	.21	4.8

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 07...	1535	13.0	A6.8	148	2.7	--	--	--	--	--	--
NOV 06...	1600	6.0	A31	207	17	--	--	--	--	--	--
DEC 05...	1520	.0	A21	96	5.4	--	--	--	--	--	--
29...	1540	.0	A12	158	5.1	--	--	--	--	--	--
JAN 20...	1540	.0	A18	146	7.1	--	--	--	--	--	--
MAR 04...	1710	.0	A110	761	226	--	--	--	--	--	--
24...	1850	1.0	A190	5420	2780	--	--	--	--	--	77
APR 08...	1520	11.0	114	1590	489	66	90	100	--	--	--
MAY 04...	0950	10.0	75	698	141	57	88	100	--	--	--
20...	1530	16.0	185	3050	1520	34	55	88	98	100	--
JUN 02...	1540	21.5	62	296	50	--	--	--	--	--	87
16...	1645	18.0	62	438	73	--	--	--	--	--	85
JUL 09...	0930	16.0	4.8	26	.34	--	--	--	--	--	68
29...	0830	15.0	6.3	32	.54	--	--	--	--	--	80
SEP 01...	1400	24.0	4.3	66	.77	--	--	--	--	--	85
03...	1300	22.0	3.5	114	1.1	--	--	--	--	--	93

A Daily mean discharge.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAY 04...	0950	75	10.0	10	6	13	30	42
JUL 29...	0830	6.3	15.0	12	7	10	46	73

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAY 04...	48	53	62	79	90	99	100
JUL 29...	76	81	87	94	97	100	--

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUN 26,76	SEP 3,76
TIME	1500	1300
TOTAL CELLS/ML	610	1100
DIVERSITY: DIVISION	1.0	1.0
.CLASS	1.0	1.0
..ORDER	1.0	1.5
...FAMILY	2.3	1.9
....GENUS	2.3	2.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS	10	2	560#	51
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	--	-	17	2
....MELOSIRA	--	-	170#	15
..PENNALES				
...ACHNANTHACEAE				
....COCCONEIS	130#	22	--	-
...CYMBELLACEAE				
....AMPHORA	--	-	*	0
....RHOPALODIA	--	-	*	0
...DIATOMACEAE				
....DIATOMA	19	4	--	-
...FRAGILARIACEAE				
....SYNEDRA	19	4	33	3
...GOMPHONEMATACEAE				
....GOMPHONEMA	10	2	--	-
...NAVICULACEAE				
....CALONEIS	--	-	17	2
....NAVICULA	19	4	170#	15
...NITZSCHIACEAE				
....NITZSCHIA	260#	43	150	14
.CHRYSOPHYCEAE				
..CHRYSOMONADALES				
...OCHROMONADACEAE				
....OCHROMONAS	*	0	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
.MYXOPHYCEAE				
..OSCILLATORIALES				
...OSCILLATORIACEAE				
....OSCILLATORIA	120#	21	--	-
EUGLENOPHYTA (EUGLENOIDS)				
.EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
....TRACHELOMONAS	19	4	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

JUNE 26, 1976
1430 HOURS

IDENTIFICATION OF PHYTOPLANKTON

3,400 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OCCYSTACEAE			
	....ANKISTRODESMUS		110	3
	...SCENEDESMACEAE			
	....SCENEDESMUS		110	3
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		260	8
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
D	....CYCLOTELLA		1,200	35
	....MELOSIRA		200	6
	..PENNALES	PENNATE		
	...DIATOMACEAE			
	....DIATOMA		28	1
	...NAVICULACEAE	NAVICULOID		
	....NAVICULA		230	7
	...NITZSCHIACEAE			
	....NITZSCHIA		310	9
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
	....ANACYSTIS		110	3
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
D	....OSCILLATORIA		630	19
	EUGLENOPHYTA	EUGLENOIDS		
	.CRYPTOPHYCEAE	CRYPTOMONADS		
	..CRYPTOMONIDALES			
	...CRYPTOMONODACEAE			
	....CRYPTOMONAS		200	6

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV 1.584
CLASS 1.584
ORDER 2.367
FAMILY 2.642
GENERA 2.886

PERIPHYTON ANALYSES

JUNE 26, 1976
1430 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
E	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

JUNE 26, 1976
1500 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
E	....STIGEOCLONIUM	
	...ULOTRICHACEAE	
O	....ULOTHRIX	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....EPITHEMIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....LYNGBYA	

SEP. 3, 1976
1300 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
E	....EPITHEMIA	
O	....RHOPALODIA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY

LOCATION.--Lat 42°06'38", long 110°42'34", in NW¼SE¼NW¼ sec.35, T.25 N., R.117 W., Lincoln County, Hydrologic Unit 14040107, on left bank 2.0 mi (3.2 km) downstream from Pole Creek, 4.6 mi (7.4 km) upstream from Taylor Creek, and 22 mi (35 km) northwest of Frontier.

DRAINAGE AREA.--128 mi^2 (332 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year. Prior to October 1970, published as "near Elk Creek ranger station."

GAGE.--Water-stage recorder. Altitude of gage is 7,455 ft (2,272 m), from topographic map. Prior to Sept. 2, 1971, at site 120 ft (37 m) upstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--24 years, 102 ft^3/s (2.889 m^3/s), 73,900 acre-ft/yr (91.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,520 ft^3/s (43.0 m^3/s) May 28, 1971, gage height, 8.10 ft (2.469 m); minimum daily, 2.0 ft^3/s (0.057 m^3/s) Mar. 20, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 350 ft^3/s (9.91 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 15	0730	*972	27.5	7.09	2.161

Minimum daily discharge, 16 ft^3/s (0.45 m^3/s) Feb. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	30	22	22	23	20	21	182	590	240	60	23
2	23	32	23	20	22	19	22	258	604	226	58	23
3	23	31	23	21	23	18	23	324	612	214	63	22
4	22	30	23	22	22	17	24	388	608	199	55	21
5	22	28	23	22	21	17	25	415	598	188	48	21
6	22	28	24	22	20	18	25	454	580	179	47	20
7	21	31	25	23	19	19	26	463	573	166	44	22
8	26	24	26	24	18	20	27	514	552	157	42	22
9	25	21	26	24	18	20	30	594	520	149	40	22
10	25	20	26	23	18	21	35	657	503	139	40	22
11	25	21	26	22	19	21	45	710	489	141	40	22
12	26	21	26	22	20	20	60	660	463	139	39	25
13	32	21	23	22	20	19	70	632	463	129	38	27
14	32	21	21	22	20	18	80	744	397	123	35	24
15	28	22	22	23	20	18	90	884	355	113	35	23
16	30	23	22	24	20	18	95	699	347	108	37	22
17	28	22	22	24	19	19	95	660	313	97	35	22
18	28	21	22	24	19	20	95	732	316	99	34	22
19	26	21	22	23	18	20	95	784	293	91	39	22
20	26	20	22	22	18	21	95	772	291	88	37	22
21	25	20	22	22	17	20	97	740	299	82	34	22
22	25	21	22	23	16	20	109	824	313	77	30	22
23	26	22	22	23	17	19	131	840	321	72	34	22
24	26	23	22	23	18	19	145	760	307	67	35	22
25	26	23	24	22	19	20	177	728	279	66	31	24
26	24	22	24	21	20	19	135	654	266	63	32	24
27	25	22	24	22	20	18	117	622	250	61	34	24
28	26	21	24	23	20	19	109	640	238	55	32	23
29	25	20	24	23	20	20	108	657	231	53	30	23
30	26	21	24	24	---	20	133	654	231	54	25	22
31	28	---	23	24	---	20	---	608	---	60	24	---
TOTAL	795	703	724	701	564	597	2339	19253	12202	3695	1207	677
MEAN	25.6	23.4	23.4	22.6	19.4	19.3	78.0	621	407	119	38.9	22.6
MAX	32	32	26	24	23	21	177	884	612	240	63	27
MIN	21	20	21	20	16	17	21	182	231	53	24	20
AC-FT	1580	1390	1440	1390	1120	1180	4640	38190	24200	7330	2390	1340

CAL YR 1975 TOTAL 46611 MEAN 128 MAX 992 MIN 10 AC-FT 92450
WTR YR 1976 TOTAL 43457 MEAN 119 MAX 884 MIN 16 AC-FT 86200

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT									
06...	1640	21	430	12.0	2	--	--	--	--
NOV									
06...	0920	31	410	1.0	1	--	--	--	--
DEC									
05...	1000	A23	280	.0	1	--	--	--	--
JAN									
20...	1330	A22	400	.0	1	--	--	--	--
MAR									
04...	1425	A17	320	.0	2	--	--	--	--
APR									
08...	1325	A27	380	.0	2	--	--	--	--
29...	1030	106	300	3.0	2	190	15	59	9.6
MAY									
12...	1350	598	210	6.0	20	--	--	--	--
27...	1030	632	235	6.0	10	130	16	43	5.8
JUN									
24...	1050	307	280	6.0	4	--	--	--	--
JUL									
09...	0840	149	240	13.0	2	150	10	47	8.9
28...	1100	54	310	16.0	1	--	--	--	--
AUG									
30...	1500	24	326	26.5	1	180	36	56	10

A Daily mean discharge.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT									
06...	--	--	--	--	--	--	--	--	--
NOV									
06...	--	--	--	--	--	--	--	--	--
DEC									
05...	--	--	--	--	--	--	--	--	--
JAN									
20...	--	--	--	--	--	--	--	--	--
MAR									
04...	--	--	--	--	--	--	--	--	--
APR									
08...	--	--	--	--	--	--	--	--	--
29...	2.8	.1	.8	209	171	17	1.7	.1	5.1
MAY									
12...	--	--	--	--	--	--	--	--	--
27...	1.7	.1	.5	141	116	7.0	2.4	.1	5.3
JUN									
24...	--	--	--	--	--	--	--	--	--
JUL									
09...	1.3	.0	.5	175	144	14	1.0	.1	4.5
28...	--	--	--	--	--	--	--	--	--
AUG									
30...	2.0	.1	.7	177	145	29	.9	.1	3.3

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT									
06...	--	--	--	--	--	--	4	.24	--
NOV									
06...	--	--	--	--	--	--	4	.33	--
DEC									
05...	--	--	--	--	--	--	10	.62	--
JAN									
29...	--	--	--	--	--	--	6	.36	--
MAR									
04...	--	--	--	--	--	--	504	23	--
APR									
08...	--	--	--	--	--	--	23	1.7	43
29...	200	.27	57.2	.26	50	120	29	8.3	65
MAY									
12...	--	--	--	--	--	--	76	123	69
27...	135	.18	230	--	10	40	31	53	88
JUN									
24...	--	--	--	--	--	--	27	22	54
JUL									
09...	164	.22	66.0	.00	2	40	18	7.2	58
28...	--	--	--	--	--	--	9	1.3	40
AUG									
30...	189	.26	12.2	.00	20	40	40	2.6	50

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
JUL										
28...	1100	54	16.0	180	1	2	3	7	30	80

09224050 HAMS FORK NEAR DIAMONDVILLE, WY

LOCATION.--Lat 41°45'06", long 110°31'57", in NW¼SE¼SW¼ sec.36, T.21 N., R.116 W., Lincoln County, Hydrologic Unit 14040107, at bridge on U.S. Highway 30N, 1.9 mi (3.1 km) south of Diamondville, and 2.8 mi (4.5 km) south of Kemmerer.

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 22...	0900	72	380	7.8	6.5	6	8.9	3.8	4500	170	27	50
NOV 20...	0815	330	410	7.9	1.5	3	9.0	3.4	4800	210	56	62
DEC 20...	0900	120	600	7.8	.5	3	9.6	1.7	3000	280	91	81
JAN 22...	0815	110	570	7.6	.0	1	8.1	3.2	4800	290	94	86
FEB 18...	1500	90	540	7.6	.0	2	7.9	1.8	B9200	270	87	79
MAR 22...	0730	E70	550	7.5	.5	2	9.3	--	4200	280	89	81
APR 23...	0800	460	460	7.9	4.0	55	9.4	3.8	1760	190	39	52
MAY 27...	0900	E700	360	7.8	11.0	3	8.8	1.8	520	170	13	50
JUN 25...	0815	160	360	8.2	13.0	7	7.8	1.5	1280	190	25	56
JUL 22...	0800	100	400	7.9	17.0	7	6.6	2.8	4900	180	26	51
AUG 19...	1530	63	370	8.9	19.5	1	12.4	5.2	400	180	54	50
SEP 17...	0800	16	520	7.4	11.0	1	5.4	1.8	2100	220	80	57

E Estimate.
B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
OCT 22...	12	5.8	.2	1.4	180	0	148	42	2.2	.2	5.3	--
NOV 20...	14	11	.3	1.4	191	0	157	71	4.9	.2	1.3	--
DEC 20...	19	13	.3	1.7	231	0	189	110	5.1	.3	2.7	--
JAN 22...	19	13	.3	1.8	243	0	199	120	6.9	.3	4.9	--
FEB 18...	18	15	.4	1.9	225	0	185	110	6.6	.2	6.0	--
MAR 22...	18	14	.4	2.0	228	0	187	110	6.2	.3	7.0	--
APR 23...	15	18	.6	2.9	186	0	153	71	7.4	.2	5.9	--
MAY 27...	11	8.9	.3	1.8	192	0	157	33	4.4	.1	5.3	180
JUN 25...	11	9.8	.3	1.3	195	0	160	26	2.6	.2	5.6	--
JUL 22...	13	7.9	.3	1.2	189	0	155	46	3.6	.2	3.1	--
AUG 19...	13	15	.5	1.5	138	7	125	74	4.3	.2	1.3	--
SEP 17...	18	22	.7	1.9	166	0	136	130	7.1	.3	.3	--

09224050 HAMS FORK NEAR DIAMONDVILLE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 22...	208	.28	60.4	--	.06	.20	.90	1.1	1.2	.09	9.5
NOV 20...	262	.36	233	--	.19	.09	.86	.95	1.1	.10	--
DEC 20...	347	.47	112	--	.12	.16	.55	.71	.83	.15	--
JAN 22...	372	.51	110	--	.31	.18	1.1	1.3	1.6	.15	4.4
FEB 18...	348	.47	84.6	--	.27	.25	.75	1.0	1.3	.23	--
MAR 22...	351	.48	66.3	--	.29	.20	.71	.91	1.2	.15	--
APR 23...	264	.36	328	--	.09	.03	.79	.82	.91	.18	6.4
MAY 27...	209	.28	395	15	.36	.03	.90	.93	1.3	.09	--
JUN 25...	209	.28	90.3	--	.13	.09	.44	.53	.66	.07	--
JUL 22...	219	.30	59.1	--	.07	.07	.55	.62	.69	.07	5.9
AUG 19...	234	.32	39.8	--	.03	.03	.97	1.0	1.0	.09	--
SEP 17...	319	.43	13.8	--	.37	.07	.69	.76	1.1	.27	--

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	SUS-PENDED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	SUS-PENDED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
OCT 22...	0900	220	220	0	2	0	2	10	10	0	30	0
NOV 20...	0815	--	--	--	--	--	--	--	--	--	1900	--
DEC 20...	0900	--	--	--	--	--	--	--	--	--	50	--
JAN 22...	0815	80	80	0	0	0	0	0	0	0	40	<10
FEB 18...	1500	--	--	--	--	--	--	--	--	--	40	--
MAR 22...	0730	--	--	--	--	--	--	--	--	--	40	--
APR 23...	0800	1800	1800	10	3	2	1	0	0	0	40	<10
MAY 27...	0900	--	--	--	--	--	--	--	--	--	30	--
JUN 25...	0815	--	--	--	--	--	--	--	--	--	30	--
JUL 22...	0800	130	130	0	1	0	1	0	0	0	40	<10
AUG 19...	1530	--	--	--	--	--	--	--	--	--	30	--
SEP 17...	0800	--	--	--	--	--	--	--	--	--	60	--

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)
OCT 22...	0	1	20	20	0	0	0	0	180	60	<100	<90
NOV 20...	--	--	--	--	--	--	--	--	--	40	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	10	--	--
JAN 22...	<9	1	0	0	0	<10	<10	0	100	10	<100	<96
FEB 18...	--	--	--	--	--	--	--	--	--	30	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	20	--	--
APR 23...	<8	2	10	10	0	10	3	7	1900	30	100	100
MAY 27...	--	--	--	--	--	--	--	--	--	60	--	--
JUN 25...	--	--	--	--	--	--	--	--	--	30	--	--
JUL 22...	<9	1	0	0	0	10	8	2	140	20	<100	<100
AUG 19...	--	--	--	--	--	--	--	--	--	20	--	--
SEP 17...	--	--	--	--	--	--	--	--	--	30	--	--

09224050 HAMS FORK NEAR DIAMONDVILLE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	SUS-PENDED LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	SUS-PENDED MOLYB-DENUM (MO) (UG/L)
OCT 22...	2	9	4	5	60	20	40	.0	.0	.0	3	3
NOV 20...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	4	10	0	10	80	20	60	.0	.0	.0	0	0
FEB 18...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--	--
APR 23...	0	10	0	10	170	100	70	.0	.0	.0	1	0
MAY 27...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 25...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 22...	0	20	10	10	60	20	40	.0	.0	.0	0	0
AUG 19...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 17...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	SUS-PENDED NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 22...	0	0	0	3	0	0	0	1.3	5	0	5
NOV 20...	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	1	<50	<46	4	1	1	0	.4	50	50	0
FEB 18...	--	--	--	--	--	--	--	--	--	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--	--
APR 23...	1	<50	<47	3	0	0	0	.7	130	130	0
MAY 27...	--	--	--	--	--	--	--	--	--	--	--
JUN 25...	--	--	--	--	--	--	--	--	--	--	--
JUL 22...	0	<50	<48	2	0	0	0	.0	20	10	10
AUG 19...	--	--	--	--	--	--	--	--	--	--	--
SEP 17...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
MAY 27...	0900	<3.0	.5	1.7	.7	1.5	.6	.12	.7

09224450 HAMS FORK NEAR GRANGER, WY

LOCATION.--Lat 41°35'56", long 109°59'28", in center of sec.30, T.19 N., R.111 W., Sweetwater County, Hydrologic Unit 14040107, at railroad bridge, 1.2 mi (1.9 km) northwest of Granger, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--670 mi² (1,740 km²), approximately.

PERIOD OF RECORD.--Water years 1965 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 21...	1500	342	520	--	9.5	--	--	--	220	72	59	18
NOV 19...	1530	90	460	--	1.5	--	--	--	220	56	64	15
DEC 19...	1500	49	740	--	1.0	--	--	--	310	110	88	23
JAN 21...	1500	90	710	--	.5	--	--	--	300	100	83	22
FEB 18...	1330	107	680	--	.5	--	--	--	300	100	84	21
MAR 21...	1500	239	340	--	.5	--	--	--	130	23	39	7.8
APR 22...	1500	167	580	--	11.0	45	--	--	240	51	68	18
MAY 26...	1715	978	420	--	15.0	60	--	--	200	28	57	13
JUN 24...	1545	209	560	--	16.0	5	--	--	250	40	68	19
JUL 22...	1500	90	560	--	22.0	20	--	--	230	33	60	20
AUG 19...	1330	21	580	--	20.0	1	--	--	210	62	52	20
SEP 03...	1530	--	580	8.6	10.5	10	8.1	1.6	210	74	51	20
16...	1500	6.4	590	--	10.5	1	--	--	220	72	50	23

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT 21...	22	.6	3.0	180	0	148	110	12	.4	1.6	--	318
NOV 19...	20	.6	1.6	200	0	164	91	8.8	.3	1.6	--	298
DEC 19...	39	1.0	1.4	250	0	205	170	19	.4	2.7	--	462
JAN 21...	35	.9	1.9	240	0	197	150	16	.4	2.6	--	426
FEB 18...	31	.8	2.8	240	0	197	150	15	.4	2.7	--	426
MAR 21...	25	1.0	3.7	130	0	107	65	8.4	.2	4.1	--	217
APR 22...	36	1.0	3.0	230	0	189	120	16	.3	6.7	--	363
MAY 26...	11	.3	1.9	210	0	172	41	5.9	.3	6.4	--	243
JUN 24...	32	.9	1.6	250	3	210	94	9.3	.4	6.3	--	355
JUL 22...	30	.9	1.6	240	0	197	73	11	.4	1.2	--	314
AUG 19...	36	1.1	1.9	180	0	148	130	11	.4	1.2	--	348
SEP 03...	33	1.0	1.5	166	0	136	130	12	.3	1.3	360	331
16...	35	1.0	2.3	180	0	148	140	12	.4	1.9	--	351

09224450 HAMS FORK NEAR GRANGER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
OCT												
21...	.43	294	.16	--	--	--	--	--	--	--	--	--
NOV												
19...	.41	72.4	.08	--	--	--	--	--	--	--	--	--
DEC												
19...	.63	61.1	.00	--	--	--	--	--	--	--	--	--
JAN												
21...	.58	104	.05	--	--	--	--	--	--	--	--	--
FEB												
18...	.58	123	.09	--	--	--	--	--	--	--	--	--
MAR												
21...	.38	140	.11	--	--	--	--	--	--	--	--	--
APR												
22...	.52	173	.07	--	--	--	--	--	--	--	--	--
MAY												
26...	.33	642	.08	--	--	--	--	--	--	--	--	--
JUN												
24...	.48	280	.07	--	--	--	--	--	--	--	--	--
JUL												
22...	.43	76.3	.05	--	--	--	--	--	--	--	--	--
AUG												
19...	.46	19.3	.27	--	--	--	--	--	--	--	--	--
SEP												
03...	.46	--	--	.04	.03	.14	.09	.41	.81	.85	.90	.59
16...	.48	6.07	.05	--	--	--	--	--	--	--	--	--

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO SPECT. (UG/L)
OCT												
21...	.28	--	--	--	--	--	247	228	--	--	--	--
NOV												
19...	.04	--	--	--	--	--	16	3.9	--	--	--	--
DEC												
19...	.03	--	--	--	--	--	54	7.1	--	--	--	--
JAN												
21...	.03	--	--	--	--	--	36	8.7	--	--	--	--
FEB												
18...	.03	--	--	--	--	--	16	4.6	--	--	--	--
MAR												
21...	.90	--	--	--	--	--	616	398	89	--	--	--
APR												
22...	.13	--	--	--	--	--	110	50	96	--	--	--
MAY												
26...	.17	--	--	--	--	--	386	966	60	--	--	--
JUN												
24...	.06	--	--	--	--	--	50	28	73	--	--	--
JUL												
22...	.04	--	--	--	--	--	16	3.9	90	--	--	--
AUG												
19...	.01	--	--	--	--	--	16	.91	61	--	--	--
SEP												
03...	.03	.00	.00	.00	760	.3	14	--	82	8.00	5.00	.916
16...	.01	--	--	--	--	--	10	.17	69	--	--	--

09224450 HAMS FORK NEAR GRANGER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ANTIMONY (SB) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
OCT 21...	1500	--	10	0	--	1	--	--	0	--	--	3
SEP 03...	1530	400	10	--	2	2	100	0	--	70	<10	1

DATE	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT 21...	--	5	--	13	--	20	--	2	4	--	5	--
SEP 03...	0	0	<10	3	300	20	<100	1	--	50	40	.0

DATE	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT 21...	.0	--	2	7	--	0	--	--	.9	--	10
SEP 03...	.0	1	1	--	0	0	<10	0	--	0	0

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)
SEP 03...	1530	<3.4	<.4	4.0	<.4	3.2	<.4	.04	.9

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	SEP 3,76
TIME	1530
TOTAL CELLS/ML	760
DIVERSITY: DIVISION	1.3
.CLASS	1.3
..ORDER	1.7
...FAMILY	2.9
....GENUS	3.0

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	38	6
...SCENEDESMACEAE		
....SCENEDESMUS	76	11
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	95	13
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	38	6
....COCCONEIS	19	3
...CYMBELLACEAE		
....EPITHEMIA	57	8
...GOMPHONEMATACEAE		
....GOMPHONEMA	19	3
...NAVICULACEAE		
....GYROSIGMA	*	0
....NAVICULA	76	11
...NITZSCHIACEAE		
....NITZSCHIA	190#	26
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	150#	21

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON ANALYSES

SEP. 3, 1976
1530 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_	_COMMON__NAME_
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....COSMARIUM	
	...ZYGNEMATACEAE	
O	....MOUGEOTIA	
E	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....CYMATOPLEURA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..CHROOCOCCALES	COCCOID
	...CHROOCOCCACEAE	
O	....AGMENELLUM	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY

LOCATION.--Lat 41°32'46", long 109°41'34", in NE¼NE¼NE¼ sec.15, T.18 N., R.109 W., Sweetwater County, Hydrologic Unit 14040107, on right bank 200 ft (61 m) upstream from bridge on U.S. Highway 30, 4.2 mi (6.8 km) upstream from Meadow Springs Wash, and 8.5 mi (13.7 km) east of Little America.

DRAINAGE AREA.--3,100 mi² (8,030 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,127.66 ft (1,867.711 m) above mean sea level.

REMARKS.--Records good except those for October to March, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), since June 1971, Viva Naughton Reservoir, capacity, 42,400 acre-ft (52.3 hm³), numerous smaller reservoirs, and diversions for irrigation of about 76,100 acres (308 km²) above station.

AVERAGE DISCHARGE.--14 years, 373 ft³/s (10.56 m³/s), 270,200 acre-ft/yr (333 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,980 ft³/s (283 m³/s) June 13, 1965, gage height, 10.90 ft (3.322 m); no flow Sept. 20-26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,810 ft³/s (51.3 m³/s) May 24, gage height, 6.12 ft (1.865 m); maximum gage height, 7.73 ft (2.356 m) Mar. 3 (backwater frim ice); minimum daily discharge, 12 ft³/s (0.34 m³/s) Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	370	160	140	135	340	231	932	744	190	93	26
2	55	330	166	135	140	400	279	664	646	220	80	25
3	55	300	174	126	144	420	353	590	586	190	84	24
4	57	270	177	122	145	380	396	608	544	170	101	23
5	57	260	180	124	144	350	383	756	545	150	97	22
6	55	250	186	128	140	320	448	941	511	150	100	20
7	52	240	200	130	135	310	589	1000	478	140	92	19
8	53	230	210	126	130	300	573	1080	456	135	75	23
9	54	220	220	122	125	290	477	1170	430	132	68	24
10	59	200	220	125	125	300	564	1250	380	127	62	25
11	65	190	205	122	130	350	674	1280	356	121	55	25
12	72	195	185	118	134	400	646	1260	346	122	55	22
13	90	205	175	117	136	450	686	1290	410	123	54	18
14	120	215	165	117	134	410	679	1370	494	125	51	18
15	170	225	160	118	133	390	587	1380	762	124	46	16
16	160	235	150	122	134	390	497	1430	942	117	43	14
17	150	238	145	125	133	400	469	1540	774	115	39	13
18	145	240	155	128	130	490	446	1460	708	113	38	12
19	145	215	155	127	125	640	400	1380	614	114	34	13
20	150	185	145	122	122	800	355	1440	516	127	32	14
21	170	140	138	119	120	700	330	1420	436	148	32	13
22	340	150	135	118	120	600	302	1460	380	149	32	21
23	360	150	133	116	125	528	311	1600	332	134	32	24
24	292	160	135	114	130	522	349	1680	296	122	32	21
25	244	170	138	112	140	584	509	1550	337	112	32	23
26	270	175	140	110	170	650	790	1420	300	100	29	18
27	300	170	143	110	200	481	922	1310	269	94	25	17
28	370	165	146	115	260	384	956	1240	250	95	25	16
29	390	170	140	120	300	319	941	1160	220	89	26	16
30	380	165	138	125	---	284	937	1090	195	91	25	16
31	350	---	139	130	---	237	---	921	---	92	25	---
TOTAL	5293	6428	5058	3783	4239	13419	16079	37672	14257	4031	1614	581
MEAN	171	214	163	122	146	433	536	1215	475	130	52.1	19.4
MAX	390	370	220	140	300	800	956	1680	942	220	101	26
MIN	52	140	133	110	120	237	231	590	195	89	25	12
AC-FT	10500	12750	10030	7500	8410	26620	31890	74720	28280	8000	3200	1150

CAL YR 1975 TOTAL 165625 MEAN 454 MAX 3420 MIN 39 AC-FT 328500
WTR YR 1976 TOTAL 112454 MEAN 307 MAX 1680 MIN 12 AC-FT 223100

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to current year.
WATER TEMPERATURES: March 1951 to September 1963, December 1964 to current year.

REMARKS.--Published as "near Green River" prior to October 1953 and as "near Marston" October 1953 to September 1964.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 6,010 micromhos Oct. 1, 1953; minimum daily, 411 micromhos May 13, 1969.
WATER TEMPERATURES: Maximum, 29.0°C July 15, 16, 1955; minimum, 0.0°C on many days during winter period most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,680 micromhos Sept. 25; minimum daily, 423 micromhos May 21.
WATER TEMPERATURES: Maximum observed, 28.0°C July 31; minimum, 0.0°C Jan. 21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT											
08...	0945	A53	2800	--	8.0	14	--	--	--	--	--
21...	0800	A170	1900	--	7.0	2	9.3	--	B11	580	370
NOV											
06...	1040	A250	1080	--	3.0	50	--	--	--	--	--
19...	0910	A215	1010	--	1.0	8	10.3	--	B10	360	160
DEC											
06...	1100	A186	1130	--	.0	25	--	--	--	--	--
19...	0845	A155	1600	--	.5	6	12.4	--	84	490	250
JAN											
21...	0800	A119	1100	--	.0	6	11.6	--	25	370	190
23...	0845	A116	580	--	.0	9	--	--	--	--	--
FEB											
18...	0900	A130	1090	--	.0	6	11.4	--	B110	380	190
MAR											
05...	1100	A350	750	--	.0	110	--	--	--	--	--
21...	0830	700	810	--	.5	430	11.6	--	B32	220	77
25...	1605	662	530	--	1.5	600	--	--	--	--	--
APR											
22...	0810	309	1010	--	7.0	120	9.0	--	B10	310	100
MAY											
05...	0930	732	640	--	9.5	110	--	--	--	--	--
25...	1530	1530	590	--	14.0	240	--	--	--	--	--
26...	0900	1440	620	--	12.0	150	8.9	--	68	230	55
JUN											
18...	1040	714	925	--	12.0	75	--	--	--	--	--
24...	0845	287	910	--	12.0	10	8.0	--	B2	380	150
JUL											
08...	1200	135	1120	--	22.0	5	--	--	--	--	--
22...	0730	151	1200	--	17.0	1	7.4	--	42	280	87
29...	1340	88	1350	--	19.0	7	--	--	--	--	--
31...	2000	93	470	8.2	27.0	6	7.1	1.7	--	410	240
AUG											
19...	0800	34	1500	--	15.0	1	7.3	--	B4	440	270
19...	1100	34	1500	8.2	17.0	150	6.3	5.2	--	490	330
SEP											
01...	0930	26	1650	--	15.5	0	--	--	--	--	--
16...	1045	14	1380	--	15.0	1	8.6	--	36	400	280
21...	1020	13	1750	--	11.5	1	--	--	--	--	--

A Daily mean discharge.
B Results based on colony count outside the acceptable range (non-ideal colony count).

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
21...	140	57	220	4.0	5.0	258	--	212	670	88	.6
NOV											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	92	31	92	2.1	2.6	236	--	194	300	39	.4
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	120	47	170	3.3	4.5	299	--	245	530	76	.5
JAN											
21...	98	31	87	2.0	2.7	223	--	183	310	42	.4
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
18...	97	33	110	2.5	3.6	233	--	191	330	58	.4
MAR											
05...	--	--	--	--	--	--	--	--	--	--	--
21...	56	20	85	2.5	3.5	177	--	145	200	46	.3
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
22...	78	29	87	2.1	4.6	258	--	212	230	49	.3
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
26...	60	19	48	1.4	2.6	211	--	173	120	22	.3
JUN											
18...	--	--	--	--	--	--	--	--	--	--	--
24...	91	36	120	2.7	4.3	270	--	221	310	43	.4
JUL											
08...	--	--	--	--	--	--	--	--	--	--	--
22...	40	44	150	3.9	5.3	236	--	194	360	41	.5
29...	--	--	--	--	--	--	--	--	--	--	--
31...	100	40	130	2.8	3.6	214	0	176	470	38	.5
AUG											
19...	100	45	160	3.3	4.0	200	--	164	540	55	.5
19...	120	46	160	3.1	4.4	200	0	164	550	56	.6
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
16...	91	43	140	3.0	3.4	157	--	129	520	49	.4
21...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
21...	5.5	--	1310	1.78	601	--	--	.02	--	--	--
NOV											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	5.7	--	680	.92	395	--	--	.11	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	7.1	--	1100	1.50	460	--	--	.07	--	--	--
JAN											
21...	6.5	--	688	.94	221	--	--	.07	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
18...	6.2	--	756	1.03	265	--	--	.52	--	--	--
MAR											
05...	--	--	--	--	--	--	--	--	--	--	--
21...	6.8	--	506	.69	956	--	--	.15	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
22...	7.7	--	613	.83	511	--	--	.07	--	--	--
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
26...	7.8	420	384	.52	1490	250	--	.01	--	--	--
JUN											
18...	--	--	--	--	--	--	--	--	--	--	--
24...	7.3	--	745	1.01	577	--	--	.00	--	--	--
JUL											
08...	--	--	--	--	--	--	--	--	--	--	--
22...	3.7	--	761	1.04	310	--	--	.02	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
31...	3.7	--	892	1.21	224	--	.08	.04	.05	.02	.45
AUG											
19...	3.1	--	1010	1.37	92.7	--	--	.02	--	--	--
19...	3.2	1100	1040	1.41	95.5	--	.03	.23	.00	.41	.27
SEP											
01...	--	--	--	--	--	--	--	--	--	--	--
16...	.9	--	926	1.26	35.0	--	--	.01	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)
OCT										
08...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
JAN										
21...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	--	--	--	--	--	--	--	--	--	--
MAR										
05...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
APR										
22...	--	--	--	--	--	--	--	--	--	--
MAY										
05...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUN										
18...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
JUL										
08...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
31...	.52	.50	.54	.58	.04	.00	.00	.00	18000	.2
AUG										
19...	--	--	--	--	--	--	--	--	--	--
19...	2.2	.27	2.6	.30	.02	.02	.00	.00	21000	.1
SEP										
01...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--

DATE	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
OCT										
08...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
JAN										
21...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	--	--	--	--	--	--	--	--	--	--
MAR										
05...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
APR										
22...	--	--	--	--	--	--	--	--	--	--
MAY										
05...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JUN										
18...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
JUL										
08...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
31...	--	--	10.4	2692	.48	.174	--	--	.312	.128
AUG										
19...	--	--	--	--	--	--	--	--	--	--
19...	2.61	4.77	124	--	--	--	.105	.000	--	--
SEP										
01...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ANTIMONY (SB) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
OCT 21...	0800	--	10	0	--	3	--	--	0	410	--	0
NOV 19...	0910	--	--	--	--	--	--	--	--	210	--	--
DEC 19...	0845	--	--	--	--	--	--	--	--	340	--	--
JAN 21...	0800	--	--	--	--	--	--	--	--	220	--	--
FEB 18...	0900	--	--	--	--	--	--	--	--	250	--	--
MAR 21...	0830	--	--	--	--	--	--	--	--	190	--	--
APR 22...	0810	--	--	--	--	--	--	--	--	160	--	--
MAY 26...	0900	--	--	--	--	--	--	--	--	110	--	--
JUN 24...	0845	--	--	--	--	--	--	--	--	200	--	--
JUL 22...	0730	--	--	--	--	--	--	--	--	290	--	--
31...	2000	--	--	--	--	--	--	--	--	270	--	--
AUG 19...	0800	--	--	--	--	--	--	--	--	330	--	--
19...	1100	400	40	--	1	2	100	200	--	330	<10	4
SEP 16...	1045	--	--	--	--	--	--	--	--	330	--	--

DATE	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT 21...	--	30	--	0	--	60	--	1	40	--	20	--
NOV 19...	--	--	--	--	--	40	--	--	--	--	--	--
DEC 19...	--	--	--	--	--	30	--	--	--	--	--	--
JAN 21...	--	--	--	--	--	0	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	20	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	20	--	--	--	--	--	--
APR 22...	--	--	--	--	--	10	--	--	--	--	--	--
MAY 26...	--	--	--	--	--	30	--	--	--	--	--	--
JUN 24...	--	--	--	--	--	10	--	--	--	--	--	--
JUL 22...	--	--	--	--	--	20	--	--	--	--	--	--
31...	--	--	--	--	--	120	--	--	--	--	10	--
AUG 19...	--	--	--	--	--	10	--	--	--	--	--	--
19...	0	0	20	20	380	10	<100	4	--	30	10	.0
SEP 16...	--	--	--	--	--	120	--	--	--	--	--	--

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 21...	.0	--	19	6	--	3	--	--	4.1	--	10
NOV 19...	--	--	--	--	--	--	--	--	--	--	--
DEC 19...	--	--	--	--	--	--	--	--	--	--	--
JAN 21...	--	--	--	--	--	--	--	--	--	--	--
FEB 18...	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	--	--	--	--	--	--	--	--	--	--	--
APR 22...	--	--	--	--	--	--	--	--	--	--	--
MAY 26...	--	--	--	--	--	--	--	--	--	--	--
JUN 24...	--	--	--	--	--	--	--	--	--	--	--
JUL 22...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	--	--	--	--	--	--	--	--	--	--	--
19...	.0	7	8	--	1	1	<10	0	--	20	60
SEP 16...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
MAY 26...	0900	12	19	7.1	12	5.6	9.4	.07	3.4
AUG 19...	1100	21	<.4	8.0	1.8	6.4	1.6	.14	7.8

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)
SEP 21...	1100	13	.0	0	.00	.00	.0	.0	0	.00

DATE	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)
SEP 21...	.0	.00	.0	.00	.0	.00	.00	.0	.00

DATE	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)
SEP 21...	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
SEP 21...	.00	.00	.00	0	0	.00	.00	.00	.00

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT										
08...	0945	8.0	A53	22	3.1	--	--	--	--	--
NOV										
06...	1040	3.0	A250	106	72	--	--	--	--	--
DEC										
08...	1100	.0	A186	80	40	--	--	--	--	--
JAN										
23...	0845	.0	A116	56	18	--	--	--	--	--
MAR										
05...	1100	.0	A350	298	282	--	--	--	--	--
29...	1605	1.5	662	2440	4360	--	--	--	--	87
MAY										
05...	0930	9.5	732	537	1060	37	62	92	100	--
29...	1530	14.0	1530	916	3790	--	--	--	--	90
JUN										
10...	1040	12.0	714	587	1130	--	--	--	--	46
JUL										
08...	1200	22.0	135	36	13	--	--	--	--	90
29...	1340	19.0	88	37	8.8	--	--	--	--	91
AUG										
19...	1100	17.0	34	48	4.4	--	--	--	--	88
SEP										
01...	0930	15.5	26	28	2.0	--	--	--	--	60
21...	1020	11.5	13	16	.56	--	--	--	--	58

A Daily mean discharge.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
MAY								
05...	0930	732	9.5	8	3	10	58	89
JUL								
29...	1340	88	19.0	10	4	10	45	54

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAY							
05...	92	93	94	95	97	100	--
JUL							
29...	55	55	56	60	66	82	100

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1860	1080	1300	1270	1010	788	1010	568	570	1170	1330	1550
2	1930	1040	1340	1330	981	788	1110	635	585	1160	1280	1600
3	1870	1000	1300	1350	1150	820	847	714	592	1240	1230	1580
4	1940	1130	1220	1310	1030	791	841	719	623	1290	1360	1540
5	2050	1120	1210	1310	1050	786	834	628	687	1120	1260	1660
6	1950	1100	1200	1280	1050	754	843	498	706	1050	1440	1600
7	1900	1090	1190	1270	1150	754	797	479	797	1080	1430	1540
8	1850	1070	1190	1210	1220	942	820	472	815	1120	1420	1520
9	1890	1050	1180	1210	1240	986	866	497	871	1170	1400	1430
10	1930	1030	1270	1210	1180	953	798	540	946	1190	1360	1260
11	2150	1200	1280	1150	1120	955	734	540	952	1130	1410	1280
12	2040	1060	1250	1160	1100	892	644	529	955	1100	1420	1250
13	2180	1310	1270	1160	1110	976	650	536	958	1050	1390	1320
14	2080	1070	1290	1180	1130	976	652	495	949	1060	1440	1300
15	2050	1240	1300	1150	1080	892	681	490	1100	1120	1410	1350
16	2340	1060	1450	1140	1120	924	672	484	1170	1120	1400	1380
17	2310	1070	1440	1020	1120	903	761	480	1050	1120	1370	1420
18	2140	1140	1480	1040	1140	903	881	459	887	1100	1480	1660
19	2040	1150	1550	1020	1160	807	882	455	951	1090	1490	1790
20	1840	1190	1590	1040	1180	878	981	445	1110	1080	1500	2010
21	1790	1190	1630	1260	1170	623	939	423	1130	1140	1590	2010
22	975	1260	1660	1350	1160	625	957	428	949	1200	1660	2130
23	843	1220	1610	1350	1180	700	931	731	1030	1200	1600	2030
24	1320	1170	1580	1260	1170	750	784	702	1090	1200	1620	2190
25	1250	1310	1540	1240	1170	859	783	630	1270	1240	1620	2680
26	1150	1320	1460	1210	1170	816	583	590	1100	1280	1630	2570
27	1080	1260	1380	1180	938	911	541	558	1060	1320	1630	2160
28	1080	1260	1360	1150	850	917	625	551	1030	1340	1710	1820
29	1030	1280	1310	1150	800	964	592	550	1070	1250	1630	2040
30	1040	1220	1310	1040	---	943	594	550	1140	1240	1770	2300
31	1000	---	1300	1050	---	992	---	487	---	1240	1670	---
MONTH	1710	1160	1370	1200	1100	854	788	544	938	1170	1480	1730
YEAR	MAX	2680	MIN	423	MEAN	1170						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	7.0	4.5	3.0	3.5	3.0	6.5	14.5	15.5	21.0	26.0	24.0
2	11.0	8.0	2.5	1.5	3.0	2.5	8.0	15.5	19.0	25.0	24.0	18.0
3	12.0	7.0	4.0	3.0	2.5	4.0	8.5	14.5	20.0	24.0	22.0	22.0
4	10.5	8.0	2.5	4.0	1.0	3.5	10.5	14.0	20.0	19.0	24.5	23.5
5	12.5	8.5	3.0	4.0	1.0	3.0	10.5	15.0	20.0	25.0	20.5	17.0
6	16.5	7.5	3.0	2.5	1.5	3.5	7.5	9.5	20.5	26.5	23.0	17.0
7	10.0	6.0	4.0	2.5	1.0	3.0	9.5	13.0	21.0	24.0	21.0	17.5
8	7.0	4.0	5.0	3.0	4.0	5.0	10.0	12.5	19.5	22.0	19.5	20.0
9	9.5	3.0	3.0	3.0	3.5	2.5	10.0	15.0	20.0	25.0	17.0	21.0
10	14.0	2.0	3.5	2.5	3.5	4.5	10.0	16.0	19.0	24.0	23.5	21.5
11	7.0	3.0	3.5	2.0	3.0	3.5	11.5	14.5	15.0	25.5	14.5	22.5
12	12.5	2.0	4.0	1.5	3.5	2.5	12.0	14.0	16.5	24.0	18.0	19.0
13	7.5	5.0	4.0	1.5	4.0	2.5	10.0	16.0	12.5	24.5	22.5	19.5
14	7.0	3.5	1.0	2.0	4.0	3.0	9.0	18.0	11.0	24.5	22.5	22.0
15	10.0	3.0	3.0	5.5	3.0	3.5	9.5	16.0	14.0	24.0	19.5	22.5
16	13.0	2.5	2.0	4.0	3.5	2.0	8.0	14.5	14.5	25.5	23.0	24.0
17	11.5	3.5	3.0	3.0	2.5	4.5	8.5	16.5	16.0	26.0	21.5	15.0
18	14.5	1.5	3.0	1.0	4.0	3.5	9.5	16.5	18.0	19.5	21.5	20.0
19	9.0	2.0	3.0	3.5	4.0	2.5	9.0	17.0	20.5	21.0	25.0	19.0
20	9.0	3.0	4.0	0.0	4.0	3.0	8.5	17.0	21.0	23.0	23.0	18.5
21	13.0	3.5	4.0	1.0	1.5	4.0	12.5	15.0	22.5	23.0	24.0	20.0
22	7.0	3.5	5.0	2.5	2.5	4.5	13.0	14.0	19.0	25.0	22.5	14.0
23	5.0	4.0	3.5	4.5	2.0	4.0	12.5	14.5	20.0	25.5	22.0	17.5
24	3.0	4.0	2.5	3.0	1.5	3.5	9.5	15.0	18.0	25.0	23.0	20.0
25	3.0	3.0	5.0	1.0	2.5	3.5	9.0	14.0	18.0	25.5	25.0	19.5
26	3.5	2.0	3.5	1.5	2.5	5.5	7.5	17.0	22.5	24.0	21.5	18.0
27	5.0	3.0	4.0	2.0	3.0	3.5	9.0	18.5	14.0	23.5	15.0	15.0
28	6.0	2.5	3.0	2.0	3.0	3.0	9.5	16.0	23.5	20.5	19.5	18.5
29	5.5	1.5	3.5	2.0	3.0	3.5	11.5	16.0	17.5	17.0	23.0	12.0
30	6.0	3.5	4.0	2.5	---	6.0	12.5	16.0	20.0	20.5	21.5	19.5
31	9.0	---	2.0	3.5	---	5.5	---	15.0	---	28.0	23.0	---
MONTH	9.0	4.0	3.5	2.5	3.0	3.5	10.0	15.0	18.5	23.5	21.5	19.5
YEAR	MAX	28.0	MIN	0.0	MEAN	11.0						

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUL 31.76	AUG 19.76
TIME	2000	1100
TOTAL CELLS/ML	18000	21000
DIVERSITY: DIVISION	1.0	1.3
.CLASS	1.0	1.4
..ORDER	1.3	2.0
...FAMILY	1.6	2.3
....GENUS	1.7	2.5

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..CHLOROCOCCALES				
...OOCYSTACEAE				
....ANKISTRODESMUS	890	5	4000#	19
....KIRCHNERIELLA	--	-	380	2
....TREUBARIA	300	2	--	-
...SCENEDESMACEAE				
....ACTINASTRUM	6200#	35	760	4
....SCENEDESMUS	*	0	380	2
....TETRASTRUM	*	0	--	-
..TETRASPORALES				
...COCCOMYXACEAE				
....ELAKATOTHRIX	*	0	--	-
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	--	-	570	3
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	9400#	52	9800#	47
..PENNALES				
...ACHNANTHACEAE				
....COCCONEIS	150	1	--	-
...CYMBELLACEAE				
....EPITHEMIA	150	1	--	-
....RHOPALODIA	--	-	380	2
...NAVICULACEAE				
....NAVICULA	--	-	380	2
...NITZSCHIACEAE				
....NITZSCHIA	1000	6	2100	10
.CHRYSOPHYCEAE				
..CHRYSOMONADALES				
...MALLOMONADACEAE				
....MALLOMONAS	--	-	190	1
CYANOPHYTA (BLUE-GREEN ALGAE)				
.MYXOPHYCEAE				
..CHROOCOCCALES				
...CHROOCOCCACEAE				
....AGMENELLUM	--	-	1500	8
....ANACYSTIS	*	0	760	4

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued
QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
PERIPHYTON ANALYSES

JULY 31, 1976
2000 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHAROPHYCEAE	STONEWORTS
	..CHARALES	
	...CHARACEAE	
E	....CHARA	
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
O	....ANKISTRODESMUS	
O	....TETRAEDRON	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....COSMARIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
O	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....GYROSIGMA	
E	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....CYMATOPLEURA	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..CHROOCOCCALES	COCCOID
	...CHROOCOCCACEAE	
O	....AGMENELLUM	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
E	....OSCILLATORIA	
	RHODOPHYTA	RED ALGAE
	.RHODOPHYCEAE	
	..NEMALIONALES	
	...CHANTRANSICACEAE	
O	....AUDOUINELLA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

AUG. 19, 1976
1100 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
E	....OEDOGONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
E	....EPITHEMIA	
O	....RHOPALODIA	
	...NAVICULACEAE	NAVICULOID
	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09224980 SUMMERS DRY CREEK NEAR GREEN RIVER, WY

LOCATION.--Lat 41°22'25", long 109°38'40", in NW¼NE¼ sec.13, T.16 N., R.109 W., Sweetwater County, Hydrologic Unit 14040107, 600 ft (183 m) downstream from Little Dry Creek, 1.6 mi (2.6 km) upstream from mouth, and 14.2 mi (22.8 km) southwest of Green River.

DRAINAGE AREA.--423 mi² (1,096 km²).

PERIOD OF RECORD.--May to September 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAY						
26...	1555	2.4	1.0	2300	6.2	100
SEP						
22...	--	--	650	65700	115000	--

09225300 GREEN RIVER TRIBUTARY NO. 2 NEAR BURNTFORK, WY

LOCATION.--Lat 41°03'40", long 109°37'05", in NE¼SE¼ sec.31, T.13 N., R.108 W., Sweetwater County, Hydrologic Unit 14040106, 200 ft (61 m) downstream from State Highway 530, 7.4 mi (11.9 km) northeast of Manila, UT, and 20.6 mi (33.1 km) east of Burntfork.

DRAINAGE AREA.--13.0 mi² (33.7 km²).

PERIOD OF RECORD.--July 1976.

REMARKS.--Peak flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
JUL					
25...	A2000	107	950	129000	37300
25...	A2030	1200	950	125000	405000

A Samples collected by single-stage sampler; time of sample estimated.

09228500 BURNT FORK NEAR BURNTFORK, WY

LOCATION.--Lat 40°56'47", long 110°03'56", in NE¼SE¼SE¼ sec.36, T.3 N., R.16 E., Summit County, UT, Hydrologic Unit 14040106, Wasatch National Forest, on left bank 0.6 mi (1.0 km) west of forest boundary and 6.5 mi (10.5 km) southwest of Burntfork.

DRAINAGE AREA.--52.8 mi² (136.8 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1943 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1944.

GAGE.--Water-stage recorder. Altitude of gage is 8,430 ft (2,569 m), from topographic map. Prior to June 10, 1965, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum. June 10 to Oct. 5, 1965, water-stage recorder at site 400 ft (122 m) downstream at different datum.

REMARKS.--Records fair except those for April, which are poor. Flow is partially regulated by Island Lake, capacity, 797 acre-ft (0.983 hm³), and Beaver Meadows Reservoir, capacity, 1,722 acre-ft (2.12 hm³). Diversion out of basin above station into Hoop Lake, capacity, 3,920 acre-ft (4.83 hm³).

COOPERATION.--Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

AVERAGE DISCHARGE.--28 years (water years 1944-71), 31.1 ft³/s (0.881 m³/s), 22,530 acre-ft/yr (27.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft³/s (90.6 m³/s) June 10, 1965 (gage height, not determined), from slope-area measurement of peak flow; minimum daily, 0.65 ft³/s (0.018 m³/s) Mar. 31, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 167 ft³/s (4.73 m³/s) June 3, gage height, 2.87 ft (0.875 m); minimum daily during period of operation, 4.2 ft³/s (0.12 m³/s) Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							4.2	5.5	97	68	31	12
2							4.3	5.2	127	68	33	12
3							4.4	7.4	141	65	38	12
4							4.5	8.3	123	60	33	11
5							4.5	9.0	112	58	29	11
6							4.4	8.6	110	57	26	12
7							4.3	8.6	105	54	22	15
8							4.4	9.7	100	54	21	13
9							4.5	9.3	110	50	21	13
10							4.7	10	107	50	20	12
11							4.8	15	103	52	19	13
12							5.0	17	85	52	19	16
13							4.7	19	78	50	18	15
14							4.7	28	75	46	17	14
15							4.6	33	68	44	16	15
16							4.5	30	64	42	16	15
17							4.5	46	64	40	15	13
18							4.5	63	61	44	15	13
19							4.4	68	64	40	14	12
20							4.3	60	76	40	14	12
21							4.4	58	79	38	14	12
22							4.6	60	76	36	14	15
23							4.7	52	68	33	18	14
24							4.7	55	55	30	16	14
25							4.7	52	61	32	16	15
26							4.4	52	65	35	15	16
27							4.4	69	61	37	14	16
28							5.0	93	61	34	14	15
29							4.8	100	60	33	13	14
30							5.0	78	64	32	13	13
31							---	78	---	29	13	---
TOTAL							136.9	1207.6	2520	1403	597	405
MEAN							4.56	39.0	84.0	45.3	19.3	13.5
MAX							5.0	100	141	68	38	16
MIN							4.2	5.2	55	29	13	11
AC-FT							272	2400	5000	2780	1180	803

09228500 BURNT FORK NEAR BURNTFORK, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-70, 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
APR												
09...	0905	A4.5	40	.0	1	--	--	--	--	--	--	--
28...	1200	6.9	38	.0	1	18	0	4.7	1.4	1.5	.2	.7
MAY												
26...	0945	46	<50	3.0	5	17	6	4.7	1.2	1.2	.1	.6
JUL												
08...	0920	58	<50	11.0	5	12	3	3.3	.8	.7	.1	.4
30...	1010	33	60	11.0	2	--	--	--	--	--	--	--
SEP												
02...	1200	13	24	10.5	1	15	1	4.3	1.0	.8	.1	.4

A Daily mean discharge.

DATE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
APR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
28...	22	18	2.2	1.2	.1	6.4	30	.04	.56	.15	10	90
MAY												
26...	13	11	9.9	1.1	.1	4.6	30	.04	3.73	.08	60	160
JUL												
08...	11	9	5.8	.5	.1	3.3	22	.03	3.45	.24	20	140
30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	17	14	3.5	.9	.1	4.0	24	.03	.84	.11	10	40

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR						
09...	0905	.0	A4.5	14	.17	50
28...	1200	.0	6.9	11	.20	70
MAY						
26...	0945	3.0	46	14	1.7	64
JUL						
08...	0920	11.0	58	13	2.0	83
30...	1010	11.0	33	20	1.8	23
SEP						
02...	1200	10.5	13	42	1.5	58

A Daily mean discharge.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
JUL										
30...	1010	33	11.0	100	0	1	5	17	40	80

09229500 HENRYS FORK NEAR MANILA, UT

LOCATION.--Lat 41°00'45", long 109°40'20", in NW¼NW¼ sec.23, T.12 N., R.109 W., Sweetwater County, WY, Hydrologic Unit 14040106, on right bank 0.8 mi (1.3 km) north of Wyoming-Utah State line, 1.3 mi (2.1 km) upstream from normal high-water line of Flaming Gorge Reservoir at elevation 6,045 ft (1,843 m), and 3.0 mi (4.8 km) northeast of Manila, UT.

DRAINAGE AREA.--520 mi² (1,350 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1971, published as "at Linwood, UT."

REVISED RECORDS.--WSP 1443: 1955.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m), from topographic map. Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2.0 mi (3.2 km) downstream at various datums. Oct. 1, 1957, to Dec. 2, 1965, water-stage recorders at sites about 1.0 mi (1.6 km) upstream at different datums.

REMARKS.--Records fair except those for winter period, which are poor. Peoples Irrigation Canal diverts 5.9 mi (9.5 km) upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--48 years, 83.8 ft³/s (2.373 m³/s), 60,710 acre-ft/yr (74.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 6,750 ft³/s (191 m³/s) Aug. 3, 1936, gage height, 7.19 ft (2.192 m), site and datum then in use, from floodmarks, from rating curve extended above 570 ft³/s (16.1 m³/s) on basis of slope-area measurement of peak flow; higher discharge occurred July 15, 1959, gage height, 9.42 ft (2.871 m), discharge not determined; no flow for several days in 1933-35, 1939-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 390 ft³/s (11.0 m³/s) May 22, gage height, 3.90 ft (1.189 m); minimum daily, 1.9 ft³/s (0.054 m³/s) Aug. 31 to Sept. 3.

REVISIONS.--Revised figures of discharge for the water year 1970, superseding those published in WSP 2124 are given herein.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	87	50	32	37	55	43	63	293	168	70	53
2	9.8	88	48	32	37	56	45	99	251	151	56	41
3	11	76	46	32	43	58	54	89	286	116	48	32
4	16	79	48	31	45	62	51	80	338	97	43	24
5	21	79	45	31	48	65	75	85	331	90	47	21
6	23	78	40	32	46	62	127	91	279	118	70	237
7	30	76	35	33	48	50	178	102	213	134	69	185
8	34	76	35	30	49	47	144	100	205	132	55	108
9	37	70	35	30	53	48	100	82	227	112	45	84
10	34	67	35	31	53	39	107	75	289	130	35	67
11	39	75	45	32	52	38	110	76	668	203	29	57
12	39	76	46	33	58	37	76	70	800	215	25	48
13	38	73	48	36	55	39	60	65	353	178	25	50
14	40	69	48	40	50	39	56	67	272	124	23	54
15	43	69	48	48	52	45	51	73	257	92	20	53
16	53	66	45	50	54	42	43	67	300	84	21	52
17	104	40	45	50	52	44	46	78	260	90	22	40
18	112	40	45	50	48	34	49	87	260	97	24	47
19	104	40	45	50	46	30	49	99	248	78	25	44
20	97	40	45	52	45	32	42	128	227	75	24	42
21	84	43	42	52	47	38	43	142	239	70	23	38
22	90	45	44	54	48	42	47	158	254	118	21	41
23	90	45	45	55	49	46	46	149	269	195	21	43
24	88	46	40	52	49	54	54	151	266	149	20	42
25	87	46	35	50	49	84	57	205	254	104	17	40
26	82	46	36	50	56	64	63	282	236	104	18	41
27	75	46	35	50	58	46	72	331	233	104	18	43
28	79	47	33	40	58	43	73	505	242	112	24	43
29	84	48	30	30	---	44	59	495	254	104	25	42
30	73	49	31	30	---	54	52	393	173	92	29	42
31	79	---	32	35	---	48	---	345	---	78	36	---
TOTAL	1804.0	1825	1280	1253	1385	1485	2072	4832	8777	3714	1028	1754
MEAN	58.2	60.8	41.3	40.4	49.5	47.9	69.1	156	293	120	33.2	58.5
MAX	112	88	50	55	58	84	178	505	800	215	70	237
MIN	8.2	40	30	30	37	30	42	63	173	70	17	21
AC-FT	3580	3620	2540	2490	2750	2950	4110	9580	17410	7370	2040	3480

CAL YR 1969 TOTAL 23966.3 MEAN 65.7 MAX 337 MIN 2.8 AC-FT 47540
WTR YR 1970 TOTAL 31209.0 MEAN 85.5 MAX 800 MIN 8.2 AC-FT 61900

09229500 HENRYS FORK NEAR MANILA, UT--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	81	57	46	55	41	59	42	102	7.4	23	1.9
2	32	79	65	45	57	36	66	39	99	8.7	19	1.9
3	30	79	70	47	59	32	62	39	162	9.7	28	1.9
4	30	79	75	49	55	30	70	39	150	11	37	2.1
5	28	79	80	51	51	28	79	42	141	6.6	33	2.3
6	28	79	82	53	47	29	85	51	132	5.6	35	2.6
7	28	76	79	50	44	30	72	70	120	5.2	23	2.8
8	35	76	77	52	43	34	64	62	94	5.9	15	2.6
9	37	68	79	54	43	39	72	70	62	4.5	13	3.0
10	37	56	83	54	45	45	66	66	70	5.6	11	2.8
11	37	50	77	52	47	49	62	64	66	4.8	6.6	3.3
12	39	53	73	50	46	50	66	55	87	7.8	8.2	4.2
13	50	57	67	52	45	49	66	51	70	7.8	9.7	5.2
14	55	66	58	53	45	48	59	53	81	7.4	8.2	6.6
15	53	68	57	56	44	48	57	61	90	12	6.6	5.9
16	50	68	57	58	43	50	59	102	55	4.8	4.5	2.8
17	50	68	56	56	43	62	59	97	40	3.9	4.2	2.1
18	48	67	55	55	44	76	53	107	40	4.5	3.3	2.1
19	47	59	53	53	45	92	48	141	28	5.2	3.0	2.6
20	47	48	52	52	45	47	45	156	18	4.5	3.0	2.6
21	45	47	51	53	43	47	45	165	12	3.9	2.8	2.6
22	47	46	50	53	41	48	47	267	10	3.3	2.8	3.0
23	53	45	49	55	40	61	47	208	32	3.0	2.8	3.0
24	59	46	48	55	39	61	47	132	39	3.0	2.6	3.9
25	53	48	49	53	40	68	47	112	16	3.0	2.6	4.5
26	52	48	49	51	42	48	55	107	12	26	2.6	3.9
27	51	46	50	49	43	50	50	90	27	12	2.6	3.9
28	54	47	49	50	44	47	45	97	8.7	7.4	2.3	3.6
29	60	49	48	52	45	43	47	138	7.8	7.4	2.6	3.3
30	70	52	49	55	---	40	45	174	7.8	12	2.6	3.0
31	79	---	48	57	---	48	---	135	---	37	1.9	---
TOTAL	1414	1830	1892	1621	1323	1476	1744	3032	1879.3	250.9	322.5	96.0
MEAN	45.6	61.0	61.0	52.3	45.6	47.6	58.1	97.8	62.6	8.09	10.4	3.20
MAX	79	81	83	58	59	92	85	267	162	37	37	6.6
MIN	28	45	48	45	39	28	45	39	7.8	3.0	1.9	1.9
AC-FT	2800	3630	3750	3220	2620	2930	3460	6010	3730	498	640	190

CAL YR 1975 TOTAL 59684.6 MEAN 164 MAX 1400 MIN 8.5 AC-FT 118400
WTR YR 1976 TOTAL 16880.7 MEAN 46.1 MAX 267 MIN 1.9 AC-FT 33480

09229500 HENRYS FORK NEAR MANILA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to current year.
WATER TEMPERATURES: March 1951 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,750 micromhos Oct. 15, 1961; minimum daily, 385 micromhos June 16, 1968, May 12, 1974.
WATER TEMPERATURES: Maximum, 29.0°C July 29, 1968; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,240 micromhos Aug. 27; minimum daily, 570 micromhos May 20.
WATER TEMPERATURES: Maximum, 24.0°C July 3, 23; minimum, 0.0°C on many days during November to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT											
08...	1250	35	2600	--	4.0	2	--	--	830	580	180
NOV											
07...	0930	76	1000	--	2.0	2	--	--	580	360	130
DEC											
07...	0830	A79	760	--	.0	30	--	--	530	300	120
JAN											
10...	1400	A54	1600	--	.0	--	--	--	910	610	200
21...	0950	A53	1150	--	.0	6	--	--	600	350	140
MAR											
05...	1115	A27	950	--	.0	15	--	--	610	360	140
APR											
09...	1015	70	950	--	8.0	190	--	--	460	240	110
MAY											
05...	1355	45	1100	--	13.0	4	--	--	520	310	110
26...	1340	110	700	--	15.5	30	--	--	320	150	77
JUL											
08...	1210	5.6	2100	--	19.0	1	--	--	1100	850	230
28...	1645	7.0	2100	--	21.5	30	--	--	1100	800	240
AUG											
09...	0830	13	1660	8.3	13.0	30	7.3	4.9	940	680	210
31...	1520	1.7	2700	--	22.0	1	--	--	1600	1400	310

A Daily mean discharge.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT										
08...	92	74	1.1	12	298	--	244	690	30	.4
NOV										
07...	63	46	.8	9.1	275	--	226	440	19	.4
DEC										
07...	55	41	.8	7.7	280	--	230	370	16	.4
JAN										
10...	100	70	1.0	11	363	--	298	740	28	.6
21...	61	45	.8	7.8	301	--	247	410	19	.4
MAR										
05...	63	45	.8	8.7	307	--	252	410	19	.5
APR										
09...	46	54	1.1	8.6	275	--	226	330	19	.4
MAY										
05...	60	50	1.0	8.5	264	--	217	370	19	.4
26...	32	26	.6	6.1	209	--	171	190	11	.3
JUL										
08...	130	110	1.4	15	313	--	257	1000	48	.6
28...	110	99	1.3	16	303	--	249	900	40	.6
AUG										
09...	100	78	1.1	13	309	0	253	810	34	.8
31...	200	140	1.5	19	275	--	226	1500	76	.8

09229500 HENRYS FORK NEAR MANILA, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)
OCT 08...	18	1250	1.70	118	--	.81	--	--	--	--
NOV 07...	16	860	1.17	176	--	.14	--	--	--	--
DEC 07...	17	766	1.04	163	--	.13	--	--	--	--
JAN 10...	22	1360	1.85	198	--	1.7	--	--	--	--
21...	16	848	1.15	121	--	.15	--	--	--	--
MAR 05...	19	858	1.17	62.5	--	.17	--	--	--	--
APR 09...	16	722	.98	136	--	.29	--	--	--	--
MAY 05...	16	764	1.04	92.8	--	.04	--	--	--	--
26...	15	461	.63	137	--	.10	--	--	--	--
JUL 08...	17	1750	2.38	24.5	--	11	--	--	--	--
28...	23	1600	2.18	30.2	--	4.8	--	--	--	--
AUG 09...	21	1450	1.97	50.9	7.2	7.2	.00	.02	1.6	1.5
31...	12	2470	3.36	11.3	--	18	--	--	--	--

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)
OCT 08...	--	--	--	--	--	--	--	300	120	--
NOV 07...	--	--	--	--	--	--	--	170	60	--
DEC 07...	--	--	--	--	--	--	--	170	80	--
JAN 10...	--	--	--	--	--	--	--	240	320	--
21...	--	--	--	--	--	--	--	160	30	--
MAR 05...	--	--	--	--	--	--	--	170	490	--
APR 09...	--	--	--	--	--	--	--	130	720	--
MAY 05...	--	--	--	--	--	--	--	170	40	--
26...	--	--	--	--	--	--	--	120	60	--
JUL 08...	--	--	--	--	--	--	--	420	150	--
28...	--	--	--	--	--	--	--	400	60	--
AUG 09...	1.6	1.5	8.8	.09	.02	.02	.06	310	320	2500
31...	--	--	--	--	--	--	--	590	70	--

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 08...	1250	4.0	35	6	.57	--
NOV 07...	0930	2.0	76	10	2.1	--
DEC 07...	0830	.0	A79	110	23	--
JAN 21...	0950	.0	A53	39	5.6	--
MAR 05...	1115	.0	A27	87	6.3	--
APR 09...	1015	8.0	70	786	149	91
MAY 05...	1355	13.0	45	33	4.0	48
26...	1340	15.5	110	106	31	85
JUL 08...	1210	19.0	5.6	32	.48	47
28...	1645	21.5	7.0	245	4.6	86
AUG 09...	0830	13.0	13	332	12	--
31...	1520	22.0	1.7	68	.31	49

A Daily mean discharge.

09229500 HENRYS FORK NEAR MANILA, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
MAY								
05...	1355	45	13.0	10	--	2	5	14
JUL								
28...	1445	7.0	21.5	--	2	8	9	14

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
MAY								
05...	19	21	24	32	48	60	78	84
JUL								
28...	17	18	18	22	26	34	53	75

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1360	1220	1280	1280	1090	881	983	1160	842	2080	1480	2640
2	1330	1190	1110	1330	1120	1030	881	1170	640	1730	1750	1630
3	1600	1250	1120	1300	1100	1030	870	1120	636	1740	2030	2450
4	1620	1260	1110	1290	1160	1160	881	1090	621	2110	1710	2430
5	1630	1120	1100	1270	1080	1140	885	1100	685	2060	1710	2480
6	1660	1170	1060	1240	1150	1180	859	1120	678	2070	1710	2000
7	1680	1230	1060	1220	1190	1170	942	1060	718	2040	1870	2080
8	1710	1250	1240	1220	1160	1190	1000	1020	727	1920	1870	1440
9	1630	1250	1090	1190	1090	1070	980	946	818	2170	1840	2060
10	1680	1350	1110	1190	1090	1040	990	996	839	1940	1770	2110
11	1690	1390	1220	1160	1080	1100	992	942	930	2180	1680	1970
12	1660	1430	1100	1190	1090	1030	992	1020	935	1860	2060	1860
13	1360	1430	1100	1160	1090	1070	988	1000	1010	1880	2050	1850
14	1630	1190	1200	1200	1090	1060	971	1230	1070	1930	1980	1980
15	1560	1230	1200	1200	1080	1070	992	1000	1060	1870	2860	1780
16	1590	1230	1460	1200	1080	1060	1000	806	1070	1940	2270	2070
17	1590	1260	1310	1230	1090	1100	1010	1220	1250	1660	2690	2120
18	1460	1240	1290	1210	1140	1010	1070	726	1310	2430	2650	1950
19	1470	1260	1300	1120	1130	765	1060	657	1340	1940	2570	2090
20	1340	1280	1310	1130	1140	774	1040	570	1320	1980	2020	1930
21	1500	1280	1330	1130	1090	1080	1060	645	1410	1960	2520	1910
22	1590	1300	1300	1140	1090	1080	1070	622	1410	2490	2760	1900
23	1410	1320	1320	1170	1090	1010	1060	591	1300	1320	2860	1870
24	1100	1340	1240	1250	1100	998	1060	673	1310	1570	2920	1810
25	1500	1430	1200	1160	1100	993	1050	671	1560	2300	2070	1740
26	1480	1430	1170	1180	1100	975	1100	756	1990	2580	2650	1730
27	1380	1280	1160	1160	1040	1020	1060	787	1280	2280	3240	1930
28	1340	1390	1240	1180	1040	986	1040	716	1980	2070	2790	1870
29	1360	1280	1250	1150	1020	1100	1140	720	1980	1380	2740	2160
30	1360	1280	1250	1220	---	1100	1170	644	1300	1600	2630	2050
31	1230	---	1250	1080	---	1080	---	703	---	1390	2910	---
MONTH	1500	1290	1210	1200	1100	1040	1010	886	1130	1960	2280	1990
YEAR	MAX	3240	MIN	570	MEAN	1380						

09229500 HENRYS FORK NEAR MANILA, UT--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	7.0	2.0	0.0	0.0	1.0	9.0	12.0	15.5	17.0	20.0	20.0
2	15.5	8.0	0.0	0.0	0.0	0.0	10.0	15.5	16.0	23.0	18.0	21.0
3	15.0	6.5	0.0	0.0	0.0	0.0	10.0	14.0	17.0	24.0	18.0	23.0
4	15.0	7.0	0.0	0.0	0.0	0.0	9.0	13.0	20.0	22.0	18.0	20.0
5	15.0	7.0	2.0	0.0	0.0	0.0	9.0	12.0	18.0	20.0	18.0	20.0
6	13.5	7.0	2.0	0.0	0.0	0.0	4.5	11.0	17.0	19.0	18.0	15.0
7	9.5	5.0	2.0	0.0	0.0	0.0	7.5	12.0	17.0	18.0	18.0	15.5
8	8.0	3.0	2.5	0.0	0.0	1.0	10.0	10.0	18.0	20.0	18.0	15.5
9	10.5	2.5	2.5	0.0	0.0	0.5	9.5	15.0	19.0	22.0	18.0	18.0
10	7.0	4.0	2.0	0.0	0.0	2.5	10.0	15.5	20.0	22.0	18.0	18.0
11	9.0	2.0	0.0	0.0	0.0	0.0	12.0	16.0	11.0	19.0	18.0	18.0
12	9.5	2.0	0.0	0.0	0.0	1.5	12.0	14.0	15.0	20.0	17.0	16.5
13	10.5	2.0	0.0	0.0	0.0	1.0	8.0	15.0	8.0	22.0	18.0	16.0
14	8.5	3.5	0.0	0.0	0.0	1.0	8.0	17.0	12.0	20.0	18.0	16.0
15	9.0	4.0	0.0	0.0	0.0	2.0	4.5	12.5	16.0	22.5	12.0	16.0
16	10.0	3.0	0.0	0.0	0.0	4.0	6.0	17.0	12.5	21.0	18.0	16.0
17	10.0	2.0	0.0	0.0	0.0	4.0	8.0	17.0	12.0	20.0	16.5	16.0
18	10.0	2.5	0.0	0.0	0.0	7.0	8.0	19.5	18.0	18.0	18.0	15.0
19	11.5	2.0	0.0	1.0	0.0	4.0	9.0	18.0	18.0	18.0	18.0	17.5
20	10.0	2.5	0.0	0.0	0.0	2.0	10.0	16.0	18.0	18.0	18.0	15.0
21	8.0	2.5	0.0	0.0	0.0	4.0	10.0	10.0	20.0	18.0	20.0	14.5
22	6.0	0.0	0.0	0.0	0.0	6.0	10.0	11.5	14.0	20.0	20.0	14.0
23	6.5	0.0	0.0	0.0	0.0	5.0	10.0	14.0	16.0	24.0	18.0	14.0
24	10.0	0.0	0.0	0.0	0.0	4.0	10.0	12.0	17.5	22.0	17.0	15.0
25	2.0	0.0	0.0	0.0	0.0	5.0	8.0	14.0	16.0	20.0	18.0	15.0
26	4.0	0.0	0.0	0.0	0.0	6.0	8.0	15.0	15.0	17.0	16.0	15.0
27	4.0	3.0	0.0	0.0	0.0	6.5	10.0	15.0	15.5	21.0	14.5	15.0
28	4.0	4.0	0.0	0.0	0.0	4.0	7.0	15.0	21.0	22.0	18.0	14.0
29	3.5	1.5	0.0	0.0	0.0	4.5	5.0	12.0	21.0	20.0	18.0	14.0
30	7.0	1.5	0.0	0.0	---	6.0	10.0	14.0	22.0	20.0	18.0	14.0
31	7.0	---	0.0	0.0	---	10.0	---	17.0	---	20.0	18.0	---
MONTH	9.0	3.0	0.5	0.0	0.0	3.0	8.5	14.0	16.5	20.5	17.5	16.5
YEAR	MAX	24.0	MIN	0.0	MEAN	9.0						

09229500 HENRYS FORK NEAR MANILA, UT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

AUG. 9, 1976
0830 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHAROPHYCEAE	STONEWORTS
	..CHARALES	
	...CHARACEAE	
E	....CHARA	
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....COSMARIUM	
	...ZYGNEMATACEAE	
O	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....AMPHIPLEURA	
O	....AMPHIPRORA	
O	....ANOMOEONEIS	
O	....CALONEIS	
O	....GYROSIGMA	
E	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....CYLINDROTHECA	
O	....DENTICULA	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
	..HETEROTRICHALES	
	...TRIBONEMATACEAE	
O	....TRIBONEMA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..CHROOCOCCALES	COCCOID
	...CHROOCOCCACEAE	
O	....AGMENELLUM	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....SCHIZOTHRIX	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....EUGLENA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PICKED ROCKS, RANDOM
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09229500 HENRYS FORK NEAR MANILA, UT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	AUG 9.76
TIME	0830
TOTAL CELLS/ML	2500
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	2.4
....GENUS	2.8

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	110	5
....COCCONEIS	110	5
....RHOICOSPHENIA	54	2
...CYMBELLACEAE		
....CYMBELLA	54	2
...FRAGILARIACEAE		
....SYNEDRA	110	5
...GOMPHONEMATACEAE		
....GOMPHONEMA	320	14
...NAVICULACEAE		
....GYROSIGMA	54	2
....NAVICULA	590#	24
....PINNULARIA	110	5
...NITZSCHIACEAE		
....NITZSCHIA	810#	33
...SURIRELLACEAE		
....SURIRELLA	160	7

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

BENTHIC INVERTEBRATE ANALYSES

DATE	AUG 9.76
TIME	0830
TOTAL COUNT	120
DIVERSITY: PHYLUM	0.0
.CLASS	0.1
..ORDER	1.5
...FAMILY	1.7
....GENUS	2.8
....GENUS-INSECTA	2.7

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.ARACHNOIDEA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1
.INSECTA	
..COLEOPTERA	
...ELMIDAE	
....DUBIRAPHIA	1
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	42
....CRYPTOCHIRONOMUS	1
....DICROTENDIPES	1
....PENTANEURA	5
....POLYPEDILUM	2
....RHEOTANYTARSUS	9
....STICTOCHIRONOMUS	9
...MUSCIDAE	
....LIMNOPHORA	1
...SIMULIIDAE	
....SIMULIUM	1
..EPHEMEROPTERA	
...TRICORYTHIDAE	
....TRICORYTHODES	35
..ODONATA	
...GOMPHIDAE	
....OPHIOGOMPHUS	2
..TRICHOPTERA	
...HYDROPSYCHIDAE	
....CHEUMATOPSYCHE	3
....HYDROPSYCHE	2
...HYDROPTILIDAE	
....OCHROTRICHIA	4
..EPHEMEROPTERA	
...LEPTOPHLEBIIDAE	
....CHOROTERPES	1

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW¼NE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi (2.9 km) southwest of Dutch John, and 4.9 mi (7.9 km) northeast of Greendale.

DRAINAGE AREA (REVISED).--19,350 mi² (50,100 km²), approximately, of which about 4,260 mi² (11,000 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing.

PERIOD OF RECORD.--November 1962 to current year.

GAGE.-- Water-stage recorder. Datum of gage is at mean sea level, datum of 1929 (levels by Bureau of Reclamation). Prior to Jan. 1, 1964, on left bank 600 ft (180 m) upstream from face of dam.

REMARKS.--Records excellent. Reservoir is formed by concrete arch-type dam; storage began Nov. 1, 1962; mass concrete of dam completed Nov. 15, 1962. Total capacity, 3,789,000 acre-ft (4,670 hm³), consisting of the following: Dead storage, 39,700 acre-ft (49.0 hm³) below elevation 5,740 ft (1,750 m); inactive storage, 233,500 acre-ft (288 hm³) between elevations 5,740 ft (1,750 m) and 5,871 ft (1,789 m); usable contents, 3,516,000 acre-ft (4,340 hm³) between elevations 5,871 ft (1,789 m) and 6,040 ft (1,841 m), top of conservation pool. Reservoir is used for flood control, storage replacement to meet downstream requirements under the Colorado River Compact of 1922, and power development. Figures given herein represent usable contents.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 3,753,000 acre-ft (4,630 hm³) July 31, 1975, elevation, 6,040.09 ft (1,841.019 m); minimum, 582,900 acre-ft (719 hm³) Apr. 26, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,615,000 acre-ft (4,460 hm³) Aug. 8, 9, elevation, 6,036.77 ft (1,840.007 m); minimum observed, 3,296,000 acre-ft (4,060 hm³) Feb. 26, 27, elevation, 6,028.71 ft (1,837.551 m).

Capacity table (elevation, in feet, and usable contents, in acre-feet)

6,025	3,157,000	6,035	3,543,000
6,030	3,346,000	6,040	3,749,000

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3649	3625	3559	3425	3328	3306	3332	3352	3492	3600	3604	3570
2	3648	3625	3555	3419	3326	3308	3331	3353	3500	3598	3606	3567
3	3647	3625	3551	3413	3324	3309	3332	3354	3508	3597	3607	3565
4	3645	3625	3547	3407	3321	3309	3334	3354	3514	3595	3610	3563
5	3645	3626	3544	3402	3318	3307	3335	3354	3522	3593	3613	3561
6	3645	3627	3540	3399	3314	3308	3336	3354	3528	3592	3614	3559
7	3642	3627	3537	3394	3311	3308	3337	3354	3536	3590	3614	3557
8	3640	3627	3535	3389	3309	3307	3337	3355	3542	3588	3615	3554
9	3637	3625	3531	3385	3308	3307	3337	3356	3547	3585	3615	3550
10	3636	3622	3528	3382	3306	3307	3338	3357	3553	3583	3614	3546
11	3638	3620	3524	3380	3303	3307	3341	3358	3558	3585	3612	3542
12	3636	3618	3518	3376	3303	3305	3342	3358	3561	3586	3612	3538
13	3635	3614	3517	3373	3301	3306	3345	3359	3566	3588	3609	3535
14	3633	3610	3512	3369	3303	3308	3346	3362	3572	3589	3606	3532
15	3631	3608	3506	3367	3302	3309	3347	3365	3576	3592	3606	3528
16	3630	3610	3502	3365	3302	3311	3348	3366	3583	3593	3604	3524
17	3629	3607	3495	3363	3301	3314	3351	3370	3588	3595	3601	3522
18	3630	3604	3490	3361	3300	3317	3355	3373	3591	3597	3600	3518
19	3630	3600	3484	3359	3299	3320	3355	3378	3594	3599	3597	3515
20	3630	3596	3479	3358	3298	3322	3353	3384	3598	3601	3594	3511
21	3628	3591	3473	3356	3298	3325	3351	3389	3598	3602	3592	3507
22	3627	3587	3468	3354	3299	3325	3351	3398	3600	3603	3590	3503
23	3629	3587	3463	3352	3299	3326	3349	3408	3602	3602	3589	3500
24	3627	3583	3459	3349	3298	3326	3347	3415	3603	3602	3587	3496
25	3625	3580	3458	3346	3297	3327	3348	3424	3602	3605	3585	3493
26	3626	3574	3452	3344	3296	3327	3348	3434	3602	3604	3583	3490
27	3625	3573	3449	3340	3296	3332	3348	3444	3604	3603	3580	3487
28	3624	3569	3445	3336	3300	3333	3350	3455	3603	3602	3578	3483
29	3624	3566	3439	3334	3303	3333	3352	3463	3602	3602	3576	3479
30	3625	3562	3436	3332	---	3333	3351	3473	3602	3602	3574	3474
31	3625	---	3432	3329	---	3332	---	3483	---	3602	3572	---
MAX	3649	3627	3559	3425	3328	3333	3355	3483	3604	3605	3615	3570
MIN	3624	3562	3432	3329	3296	3305	3331	3352	3492	3583	3572	3474
(†)	6,037.00	6,035.47	6,032.20	6,029.56	6,028.89	6,029.64	6,030.13	6,033.50	6,036.44	6,036.44	6,035.71	6,033.28
(‡)	-25	-63	-130	-103	-26	+29	+19	+132	+119	0	-30	-98

CAL YR 1975. . . . . (‡) +170
WTR YR 1976. . . . . (‡) -176

† Elevation, in feet at end of month
‡ Change in contents, in thousands of acre-feet

09234500 GREEN RIVER NEAR GREENDALE, UT

LOCATION.--Lat 40°54'30", long 109°25'20", in NW¼SE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest, on right bank 0.5 mi (0.8 km) downstream from Flaming Gorge Dam, 2 mi (3 km) south of Dutch John, 4 mi (6 km) northeast of Greendale, and 407.0 mi (654.9 km) from mouth.

DRAINAGE AREA (REVISED).--19,350 mi² (50,100 km²), approximately, of which about 4,260 mi² (11,000 km²), including 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming, is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,594.48 ft (1,705.20 m) above mean sea level. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi (3.5 km) upstream at different datum.

REMARKS.--Records good. Transbasin diversions and diversions for irrigation above station. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi (0.8 km) upstream since Nov. 1, 1962 (see sta 09234400).

AVERAGE DISCHARGE.--26 years, 2,072 ft³/s (58.7 m³/s), 1,501,000 acre-ft/yr (1.85 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s (555 m³/s) June 12, 1957, gage height, 10.60 ft (3.231 m), site and datum then in use; minimum, 2.3 ft³/s (0.065 m³/s) Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,650 ft³/s (132 m³/s) June 9, gage height, 6.47 ft (1.972 m); minimum daily, 728 ft³/s (20.6 m³/s) Nov. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	1090	2840	4030	1960	1750	1930	3180	4340	2820	2580	2840
2	1620	1100	3130	4040	2610	1540	2390	3140	4340	2480	3110	2530
3	1210	1240	3380	4070	2530	2110	1200	3290	4340	2680	2810	2900
4	941	1280	3290	4060	2910	2400	873	3320	4330	2660	1880	2770
5	847	852	3500	3710	3300	2060	1520	4030	4330	2790	1980	2480
6	863	733	3490	2880	2910	1300	2110	4040	4310	3100	2580	2220
7	1770	728	2780	3070	2270	1990	1380	4320	4330	3110	2700	2890
8	1710	1710	3270	3700	1810	2260	1950	4300	4330	2910	2690	2700
9	1910	1820	3410	3480	2710	1900	1830	4420	4330	2790	2940	2860
10	1510	1890	3430	2250	2620	2200	1540	4430	4340	2520	2720	2840
11	1420	1930	3730	3150	2710	1900	1150	4420	4330	2470	2900	2710
12	1010	1970	3490	2620	1780	2190	1740	4420	4340	2860	2710	2450
13	1600	3100	3550	2830	1910	1630	1500	4370	4330	2240	2910	2550
14	1770	2660	3510	2850	1280	863	1910	4410	4310	2580	2590	1510
15	1750	2160	3660	2610	916	1630	2780	4420	4330	2820	2340	2930
16	1610	1130	3700	2840	1380	1180	2090	4420	3140	2780	2500	2990
17	1070	2720	4060	2290	1930	1140	1500	4410	3110	2590	2670	2890
18	862	2560	4160	2030	2320	1250	1580	4370	3090	2530	2810	2640
19	820	2880	3710	2740	2200	1600	2880	4400	3110	2940	2820	2220
20	1120	3080	3680	2210	1900	946	3600	4400	2890	2820	2570	2720
21	1700	2980	4160	2250	1350	880	3310	4400	3070	2920	2530	2970
22	1590	2610	3860	2040	1120	2280	3030	4390	3660	3000	2370	2990
23	1380	1570	3380	2400	1580	2480	3370	4390	2800	3170	2610	2680
24	1680	2780	3770	2610	1570	2370	3090	4390	2600	3270	2530	2820
25	2100	3010	1070	2550	1730	2310	3320	4370	2350	3230	2960	2950
26	1370	3170	3090	2890	1660	1890	3200	4370	2620	2850	2870	2200
27	1650	1850	3730	2980	1160	1100	3150	4370	1600	2680	2500	2730
28	1590	3150	3720	2740	949	1080	3060	4360	3130	2840	2500	2860
29	1470	2990	3580	2770	904	2050	3300	4340	2440	2830	2160	3080
30	1100	2700	3320	2830	---	2050	3360	4340	2470	2920	2870	2930
31	1200	---	3480	2570	---	2220	---	4340	---	2370	2740	---
TOTAL	43493	63443	106930	90090	55979	54549	69643	130570	107040	86570	81450	80850
MEAN	1403	2115	3449	2906	1930	1760	2321	4212	3568	2793	2627	2695
MAX	2100	3170	4160	4070	3300	2480	3600	4430	4340	3270	3110	3080
MIN	820	728	1070	2030	904	863	873	3140	1600	2240	1880	1510
AC-FT	86270	125800	212100	178700	111000	108200	138100	259000	212300	171700	161600	160400

CAL YR 1975 TOTAL 884396 MEAN 2423 MAX 5010 MIN 728 AC-FT 1754000
WTR YR 1976 TOTAL 970607 MEAN 2652 MAX 4430 MIN 728 AC-FT 1925000

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1956 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1956 to September 1959, October 1963 to current year.
WATER TEMPERATURES: October 1956 to September 1959, October 1963 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1956 to September 1959.

REMARKS.--Storage in Flaming Gorge Reservoir began on Nov. 1, 1962. Extremes are given for two separate periods--water years 1957-62, and water years 1964 to current year. Extremes for the 1963 water year (October 1962 to September 1963) are not included. Unpublished daily records of specific conductance obtained before 1965 were included in the determination of extremes for period of daily record and are available in the files of Utah district office.

EXTREMES FOR PERIOD OF DAILY RECORD (water years 1957-62).--
SPECIFIC CONDUCTANCE (water years 1957-58, 1960-62): Maximum daily, 1,340 micromhos Aug. 30, 1961; minimum daily, 325 micromhos June 2, 1961.
WATER TEMPERATURES (water years 1957-59): Maximum, 24.0°C July 24, 25, 1959; minimum, 0.0°C on many days during winter period each year.
Water years 1964 to current year:
SPECIFIC CONDUCTANCE: Maximum daily, 1,060 micromhos Nov. 9, 1971; minimum daily, 606 micromhos Nov. 14, 22, 1963, Feb. 10-19, 1964.
WATER TEMPERATURES: Maximum, 14.0°C Nov. 11, 1963; minimum, 2.0°C on several days in 1964.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 895 micromhos Apr. 30; minimum daily, 700 micromhos on several days during February and September.
WATER TEMPERATURES: Maximum, 8.0°C on many days during November and December; minimum, 3.0°C Feb. 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT 22...	1230	1920	760	8.2	8.0	7.2	<1	<1	290	130	72	27
NOV 26...	1130	3780	750	8.1	7.0	6.5	<1	<1	280	120	71	26
DEC 30...	1015	3830	710	8.0	6.0	8.0	<1	<1	260	100	68	23
JAN 28...	1045	3960	730	8.5	4.0	8.6	<1	<1	270	96	67	24
FEB 18...	1030	3960	720	8.3	3.0	9.4	<1	<1	260	100	65	24
MAR 17...	1100	1150	710	8.5	4.0	10.2	<1	<1	270	110	67	24
APR 21...	1200	4120	730	8.5	4.0	9.2	<1	<1	270	110	67	26
MAY 19...	1115	4390	720	8.3	4.5	9.4	0	2	280	130	69	27
JUN 16...	1015	4340	730	8.1	4.5	9.5	<1	<1	280	120	70	26
JUL 21...	1100	3960	740	8.3	5.5	9.1	<1	<1	290	130	70	27
AUG 12...	1030	3880	680	8.1	6.5	10.5	<1	<1	300	140	74	27
SEP 15...	1600	3910	735	8.4	7.0	8.3	<1	<1	290	130	70	27

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT 22...	72	1.8	2.6	192	0	240	19	.3	4.2	526	532
NOV 26...	63	1.6	2.8	200	0	230	17	.3	4.4	537	513
DEC 30...	57	1.5	2.5	190	0	210	16	.2	4.2	474	475
JAN 28...	52	1.4	2.7	190	11	200	16	.3	4.1	493	471
FEB 18...	52	1.4	2.9	190	0	200	15	.3	3.8	480	457
MAR 17...	54	1.4	2.7	190	5	200	15	.3	4.2	489	466
APR 21...	54	1.4	2.7	190	4	210	17	.3	4.3	506	479
MAY 19...	53	1.4	2.5	190	0	240	16	.4	4.7	552	506
JUN 16...	55	1.4	2.5	200	0	230	16	.5	4.6	514	503
JUL 21...	56	1.4	2.5	190	0	230	16	.3	4.6	532	500
AUG 12...	57	1.4	2.6	190	0	220	17	.3	4.5	510	496
SEP 15...	58	1.5	2.6	185	2	230	17	.3	4.6	525	503

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL A MG/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL B MG/SQ M
OCT 22...	.72	2760	.73	.00	.73	10	20	--	--	--	--
NOV 26...	.70	5240	.89	1.4	2.3	--	240	--	--	--	--
DEC 30...	.65	4910	.66	.25	.91	--	100	1.10	1.20	.200	.100
JAN 28...	.64	5040	.72	.68	1.4	4.1	460	--	--	--	--
FEB 18...	.62	4890	.71	.51	1.2	--	2100	--	--	--	--
MAR 17...	.63	1450	.69	.51	1.2	--	530	--	--	--	--
APR 21...	.65	5330	.75	.30	1.1	5.3	240	.500	.900	.800	.000
MAY 19...	.69	6000	.69	.33	1.0	--	380	--	--	--	--
JUN 16...	.68	5890	.70	.30	1.0	--	53	--	--	--	--
JUL 21...	.68	5350	.72	.32	1.0	37	120	--	--	--	--
AUG 12...	.67	5200	.74	.13	.87	--	140	--	--	--	--
SEP 15...	.68	5310	.81	.53	1.3	--	50	1.69	3.23	.745	.060

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 22...	1230	2	2	0	0	80	0	60	0	10	1	10
JAN 28...	1045	2	2	<10	0	0	0	<50	0	<10	1	30
APR 21...	1200	2	2	<10	0	10	0	<50	0	10	1	130
JUL 21...	1100	2	3	1	0	30	0	0	0	2	2	70

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 22...	10	<100	4	10	10	.0	.0	2	1	10	10
JAN 28...	0	<100	2	10	0	.0	.0	2	1	10	0
APR 21...	0	<100	4	0	0	.0	.0	2	2	40	0
JUL 21...	10	0	0	20	10	.3	.2	3	3	10	10

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	790	---	760	---	---	770	860	---	780	770	---	710
2	810	---	765	720	740	770	860	---	790	770	780	710
3	815	780	770	---	740	770	---	790	790	---	780	700
4	---	790	770	---	740	770	---	791	790	---	790	---
5	---	790	770	735	740	770	875	790	---	---	790	---
6	815	790	---	740	---	---	875	795	---	770	790	---
7	810	790	---	730	---	---	870	795	790	770	---	710
8	815	---	770	745	---	780	870	---	790	770	---	700
9	810	---	780	750	740	780	870	---	790	760	790	700
10	820	---	790	---	735	770	---	795	790	---	780	700
11	---	---	780	---	735	780	---	798	780	---	780	---
12	---	790	770	740	740	780	880	799	---	770	780	---
13	---	780	---	720	740	---	880	799	---	770	780	700
14	790	780	---	730	---	---	880	799	790	770	---	710
15	810	---	750	740	---	770	880	---	790	770	---	700
16	780	---	770	735	---	770	880	---	790	770	790	700
17	800	780	740	---	720	770	---	792	780	---	790	710
18	---	780	750	---	715	770	---	795	790	---	790	---
19	---	780	750	740	700	760	880	795	---	770	790	---
20	800	780	---	745	705	---	880	795	---	770	780	710
21	800	780	---	745	---	---	885	791	780	780	---	710
22	810	---	750	750	---	770	890	---	790	780	---	700
23	810	---	750	750	705	770	885	---	780	775	730	700
24	805	780	735	---	700	770	---	791	790	---	780	710
25	---	760	---	---	715	770	---	789	790	---	780	---
26	---	780	---	735	715	760	890	790	---	780	780	---
27	---	---	---	735	715	---	890	790	---	790	790	710
28	805	790	---	740	---	---	885	789	790	780	---	700
29	810	---	720	740	---	770	890	---	780	780	---	710
30	800	---	730	730	---	770	895	---	790	790	780	710
31	800	---	730	---	---	760	---	---	---	---	785	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE (DEG. C) OF WATEH, WATER YEAR OCTOHER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APH	MAY	JUN	JUL	AUG	SEP
1	7.0	---	8.0	---	---	4.5	4.5	---	4.5	5.5	---	6.5
2	7.0	---	8.0	7.0	5.0	4.5	4.5	---	5.0	5.5	5.5	6.5
3	7.0	7.5	8.0	---	5.0	4.5	---	4.5	5.0	---	6.0	6.5
4	---	7.5	8.0	---	5.0	4.5	---	4.5	5.0	---	6.0	---
5	---	7.5	8.0	6.5	5.0	4.5	4.5	4.5	---	---	6.0	---
6	7.0	8.0	---	6.5	---	---	4.5	4.5	---	5.5	6.0	---
7	7.0	8.0	---	6.0	---	---	4.5	4.5	5.0	5.5	---	6.5
8	7.0	---	8.0	6.0	---	4.5	4.5	---	5.0	5.5	---	6.5
9	7.0	---	8.0	6.0	5.0	4.5	4.5	---	5.0	5.5	6.0	6.5
10	7.0	---	8.0	---	5.0	4.5	---	4.5	5.0	---	6.0	6.5
11	---	---	8.0	---	5.0	4.5	---	4.5	5.0	---	6.5	---
12	---	8.0	8.0	6.0	5.0	4.5	4.5	4.5	---	5.5	6.5	---
13	---	8.0	---	6.0	5.0	---	4.5	4.5	---	5.5	6.5	6.5
14	7.5	8.0	---	5.5	---	---	4.5	4.5	5.0	5.5	---	7.0
15	7.5	---	8.0	5.5	---	4.5	4.5	---	5.0	5.5	---	7.0
16	7.5	---	8.0	5.5	---	4.5	4.5	---	5.0	5.5	6.5	7.0
17	7.5	8.0	8.0	---	4.5	4.5	---	4.5	5.0	---	6.5	7.0
18	---	8.0	8.0	---	3.0	4.5	---	4.5	5.5	---	6.5	---
19	---	8.0	8.0	5.5	4.5	4.5	4.5	4.5	---	6.0	6.5	---
20	7.5	8.0	---	5.5	4.5	---	4.5	4.5	---	6.0	6.5	7.0
21	7.5	8.0	---	5.5	---	---	4.5	4.5	5.5	6.0	---	7.0
22	7.5	---	8.0	5.5	---	4.5	4.5	---	5.5	6.0	---	7.0
23	7.5	---	7.5	5.5	4.5	4.5	4.5	---	5.5	6.0	6.5	7.0
24	7.5	8.0	7.5	---	4.5	4.5	---	4.5	5.5	---	6.5	7.0
25	---	8.0	---	---	4.5	4.5	---	4.5	5.5	---	6.5	---
26	---	8.0	---	5.0	4.5	4.5	4.5	4.5	---	6.0	6.5	---
27	---	---	---	5.0	4.5	---	4.5	4.5	---	6.0	6.5	7.0
28	7.5	8.0	---	5.0	---	---	4.5	4.5	5.5	6.0	---	7.0
29	7.5	---	7.5	5.0	---	4.5	4.5	---	5.5	6.0	---	7.0
30	7.5	---	7.0	5.0	---	4.5	4.5	---	5.5	6.0	6.5	7.0
31	7.5	---	7.0	---	---	4.5	---	---	---	---	6.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	OCT 22.75	NOV 26.75	DEC 30.75	JAN 28.76	FEB 18.76	MAR 17.76
TIME	1230	1130	1015	1045	1030	1100
TOTAL CELLS/ML	20	260	100	460	2100	530
DIVERSITY: DIVISION	0.0	0.5	0.8	0.0	0.0	0.0
.CLASS	0.0	0.5	0.8	0.0	0.0	0.3
..ORDER	0.0	0.5	1.3	0.9	0.0	0.9
...FAMILY	0.8	0.5	1.3	1.2	0.0	1.5
....GENUS	0.8	0.5	2.1	1.5	0.2	2.0

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...OOCYSTACEAE												
....OOCYSTIS	--	-	*	0	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	*	0	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	--	-	--	-	24#	24	--	-	--	-	--	-
..TETRASPORALES												
...COCCOMYXACEAE												
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	*	0	--	-
...PHACOTACEAE												
....PHACOTUS	--	-	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	9	3	12	12	170#	36	2000#	96	34	6
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	34	6
....STEPHANODISCUS	--	-	--	-	--	-	--	-	82	4	11	2
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	*	0	--	-	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-	--	-	--	-
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	15#	75	--	-	*	0	--	-	--	-	34	6
...FRAGILARIACEAE												
....ASTERIONELLA	*	0	*	0	10#	10	42	9	*	0	46	9
....FRAGILARIA	--	-	*	0	42#	41	230#	50	*	0	330#	62
....SYNEDRA	--	-	--	-	6	6	--	-	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	5#	25	--	-	--	-	--	-	--	-	11	2
...NAVICULACEAE												
....NAVICULA	--	-	--	-	--	-	*	0	--	-	11	2
...NITZSCHIACEAE												
....NITZSCHIA	*	0	17	6	--	-	21	5	--	-	--	-
.CHRYSOPHYCEAE												
..CHRYSOCAPSALES												
...HYDRURACEAE												
....HYDRURUS	--	-	--	-	--	-	--	-	--	-	--	-
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....DINOBRYON	--	-	--	-	--	-	--	-	--	-	--	-
....OCHROMONAS	--	-	--	-	--	-	--	-	--	-	23	4
CYANOPHYTA (BLUE-GREEN ALGAE)												
.MYXOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	240#	90	*	0	--	-	--	-	--	-
..OSCILLATORIALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.CRYPTOPHYCEAE												
..CRYPTOMONIDALES												
...CRYPTOMONODACEAE												
....CRYPTOMONAS	*	0	--	-	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	APR 21,76		MAY 19,76		JUN 16,76		JUL 21,76		AUG 12,76		SEP 15,76	
TIME	1200		1115		1015		1100		1030		1600	
TOTAL CELLS/ML	240		380		53		120		140		58	
DIVERSITY: DIVISION	0.0		0.1		0.8		0.3		0.4		0.7	
.CLASS	0.0		0.1		0.8		1.2		0.4		0.7	
..ORDER	0.2		0.1		0.8		2.0		0.4		1.9	
...FAMILY	0.5		0.4		1.3		2.7		0.4		1.9	
....GENUS	0.5		0.5		1.3		2.8		0.4		2.1	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...OOCYSTACEAE												
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-	23#	40
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	--	-	--	-	--	-	--	-	--	-	--	-
..TETRASPORALES												
...COCCOMYXACEAE												
....ELAKATOTHRIX	--	-	--	-	--	-	7	6	--	-	12#	20
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...PHACOTACEAE												
....PHACOTUS	--	-	--	-	--	-	--	-	--	-	12#	20
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	8	3	--	-	--	-	7	6	*	0	--	-
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
....STEPHANODISCUS	*	0	--	-	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	*	0	--	-	--	-	3	3	--	-	6	10
....COCCONEIS	--	-	--	-	--	-	--	-	5	3	6	10
....RHOICOSPHENIA	--	-	*	0	--	-	--	-	--	-	--	-
...DIATOMACEAE												
....DIATOMA	15	6	7	2	3	6	10	8	*	0	--	-
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	210#	90	350#	92	3	6	--	-	--	-	--	-
....SYNEDRA	--	-	7	2	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	*	0	--	-	--	-	7	6	--	-	--	-
...NAVICULACEAE												
....NAVICULA	*	0	--	-	3	6	3	3	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	--	-	7	2	3	6	16	14	5	3	--	-
.CHRYSOPHYCEAE												
..CHRYSOCAPSALES												
...HYDRURACEAE												
....HYDRURUS	--	-	--	-	--	-	43#	36	--	-	--	-
..CHRYSOMONADALES												
...OCHROMONADACEAE												
....DINOBRYON	--	-	--	-	--	-	20#	17	--	-	--	-
....OCHROMONAS	--	-	--	-	--	-	3	3	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.MYXOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	--	-	130#	93	*	0
..OSCILLATORIALES												
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	40#	75	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)												
.CRYPTOPHYCEAE												
..CRYPTOMONIDALES												
...CRYPTOMONODACEAE												
....CRYPTOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	7	2	--	-	--	-	*	0	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09235300 VERMILLION CREEK NEAR HIAWATHA, CO

LOCATION.--Lat 41°00'54", long 108°38'39", in NE¼SE¼NE¼ sec.15, T.12 N., R.100 W., Sweetwater County, WY, Hydrologic Unit 14040109, on right bank 0.7 mi (1.1 km) upstream from county road, 0.9 mi (1.4 km) downstream from Alkali Creek, 1.8 mi (2.9 km) upstream from Horseshoe Wash, 1.9 mi (3.1 km) upstream from the Wyoming-Colorado State line, 2.3 mi (3.7 km) northwest of Hiawatha, CO, and 49 mi (79 km) southwest of Rock Springs, WY.

DRAINAGE AREA.--196 mi^2 (508 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,610 ft (2,015 m), from topographic map.

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 692 ft^3/s (19.6 m^3/s) Aug. 1, gage height, 6.52 ft (1.987 m), from rating curve extended above 10 ft^3/s (0.28 m^3/s) on basis of slope-area measurements of gage heights 3.03 ft (0.924 m) and 6.52 ft (1.987 m); minimum daily, 0.07 ft^3/s (0.002 m^3/s) July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.8	1.8	1.4	2.1	4.4	9.2	2.4	5.3	.64	30	1.1
2	1.0	1.9	1.9	1.3	1.9	4.2	10	2.0	4.5	.64	23	1.0
3	1.0	2.0	1.9	1.2	1.8	3.8	11	1.9	4.0	.59	16	1.0
4	1.0	2.1	2.0	1.2	1.6	3.4	11	1.6	4.0	.64	6.0	.79
5	1.1	2.2	2.0	1.3	1.6	3.3	10	1.4	1.8	.50	3.6	.74
6	1.3	2.3	2.1	1.4	1.7	3.2	11	1.6	1.2	.34	2.4	.74
7	1.2	2.3	2.2	1.3	1.9	3.5	7.5	2.1	1.0	.34	1.8	.64
8	1.1	2.1	2.2	1.3	2.1	3.8	5.3	2.3	.74	.26	1.8	.64
9	1.1	1.9	2.1	1.4	2.2	4.2	3.7	2.6	.64	.20	1.4	.66
10	1.0	1.7	2.2	1.3	2.3	5.2	4.2	2.8	.54	.17	1.5	.69
11	1.1	1.3	2.2	1.2	2.2	6.2	5.3	2.6	.50	.23	1.5	.69
12	1.6	1.2	2.1	1.3	2.3	7.0	4.0	2.8	.50	.20	1.5	.69
13	1.5	1.3	2.0	1.4	2.5	8.5	3.7	2.8	.59	.34	1.5	.69
14	1.3	1.4	1.9	1.5	2.6	9.0	4.2	2.6	.69	.23	1.4	.69
15	1.2	1.6	1.9	1.6	2.7	9.5	5.3	3.0	1.1	.14	1.2	.69
16	1.1	1.8	1.8	1.7	2.7	11	5.0	4.8	.85	.07	1.3	.69
17	1.1	1.9	1.7	1.8	2.6	13	3.0	5.3	.96	.10	1.3	.64
18	1.1	1.9	1.6	1.8	2.5	22	2.1	4.5	1.0	.14	1.2	.59
19	1.0	1.8	1.6	1.7	2.4	17	2.8	5.0	.96	.20	1.3	.64
20	1.0	1.7	1.5	1.6	2.4	12	2.8	16	.85	.17	1.2	1.1
21	1.1	1.6	1.4	1.6	2.3	13	2.8	11	.59	1.2	1.2	.79
22	1.2	1.6	1.4	1.5	2.3	15	2.4	13	.50	.59	1.2	.74
23	1.3	1.5	1.3	1.4	2.3	14	2.1	15	.50	.50	1.2	.85
24	1.4	1.5	1.3	1.5	2.3	12	1.9	11	1.0	.38	1.2	.90
25	1.3	1.6	1.2	1.7	2.3	11	1.7	9.6	.74	.38	1.2	8.5
26	1.2	1.6	1.2	1.9	2.5	10	3.5	8.7	.74	.54	1.2	2.2
27	1.3	1.5	1.3	2.1	3.0	9.5	4.2	7.9	.69	.46	1.2	1.2
28	1.4	1.5	1.4	2.3	3.9	9.1	3.2	7.5	.59	.30	1.2	1.1
29	1.4	1.6	1.5	2.2	4.4	8.8	2.8	7.5	.42	.20	1.2	1.2
30	1.5	1.7	1.4	2.3	---	8.5	3.2	6.6	.50	.42	1.2	1.1
31	1.6	---	1.5	2.2	---	8.5	---	5.8	---	.42	1.1	---
TOTAL	37.5	51.9	53.6	49.4	69.4	273.6	148.9	173.7	37.99	11.53	114.0	33.69
MEAN	1.21	1.73	1.73	1.59	2.39	8.83	4.96	5.60	1.27	.37	3.68	1.12
MAX	1.6	2.3	2.2	2.3	4.4	22	11	16	5.3	1.2	30	8.5
MIN	1.0	1.2	1.2	1.2	1.6	3.2	1.7	1.4	.42	.07	1.1	.59
AC-FT	74	103	106	98	138	543	295	345	75	23	226	67

WTR YR 1976 TOTAL 1055.21 MEAN 2.88 MAX 30 MIN .07 AC-FT 2090

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1975 to September 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT										
24...	1140	1.4	700	--	.5	65	--	--	--	--
NOV										
04...	1550	A2.1	1200	--	5.5	170	--	--	--	--
17...	1440	A1.9	1450	8.3	1.0	130	10.7	--	460	47
DEC										
06...	1250	A2.1	1350	--	.0	85	--	--	--	--
17...	1430	A1.7	1550	8.2	.0	75	11.2	1.3	510	86
JAN										
19...	1400	A1.7	1600	8.0	.0	20	10.2	3.3	530	61
21...	1035	A1.6	1600	--	.0	15	--	--	--	--
FEB										
16...	1130	A2.7	1400	8.1	.5	40	11.0	2.7	480	59
MAR										
05...	1245	A3.3	820	--	.0	85	--	--	--	--
20...	1400	A12	1600	8.1	.5	1100	11.0	6.2	510	280
25...	1205	A11	1150	8.4	.5	1100	--	--	380	130
APR										
09...	1205	3.2	1500	--	9.5	900	--	--	--	--
21...	0930	3.2	1500	8.3	5.5	740	9.6	3.1	480	120
MAY										
06...	1505	1.9	1450	--	9.5	600	--	--	--	--
20...	1035	7.5	1100	--	13.0	1900	--	--	--	--
25...	1630	10	960	8.2	13.0	--	8.0	2.5	--	--
JUN										
03...	1715	4.0	1100	--	17.5	410	--	--	--	--
22...	1400	.54	1500	8.4	16.0	90	7.5	1.7	490	160
24...	0950	1.1	1400	--	11.0	55	--	--	--	--
25...	0630	.69	1600	8.4	7.0	80	8.1	1.1	--	--
JUL										
07...	1120	.38	1700	--	24.0	30	--	--	--	--
20...	1000	.23	1700	8.3	19.0	25	8.2	2.8	480	100
21...	1200	1.1	1770	8.4	27.0	300	6.8	3.0	570	200
27...	1150	.46	1600	--	23.5	30	--	--	--	--
AUG										
05...	1000	3.7	1600	--	13.0	550	--	--	--	--
12...	1040	1.8	1300	--	15.5	80	--	--	--	--
17...	1330	1.4	1370	8.3	21.0	35	7.7	3.7	420	96
SEP										
09...	1445	.64	1300	--	24.0	1	--	--	--	--
15...	1700	.69	1400	8.3	20.0	4	7.4	1.8	370	49
22...	0830	.79	1275	--	10.5	14	--	--	--	--

A Daily mean discharge.

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT										
24...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	--	--	--	--	--	--	--	--	--	--
17...	83	61	170	3.5	3.5	502	0	412	370	20
DEC										
06...	--	--	--	--	--	--	--	--	--	--
17...	93	68	170	3.3	3.1	520	0	427	390	18
JAN										
19...	96	71	190	3.6	3.9	574	0	471	460	21
21...	--	--	--	--	--	--	--	--	--	--
FEB										
16...	88	64	160	3.2	3.9	517	0	424	380	21
MAR										
05...	--	--	--	--	--	--	--	--	--	--
20...	120	50	160	3.1	4.8	278	0	228	570	3.6
25...	79	44	120	2.7	4.2	309	0	253	370	12
APR										
09...	--	--	--	--	--	--	--	--	--	--
21...	88	64	180	3.6	4.1	441	0	362	440	20
MAY										
06...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	0	--	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
22...	76	74	180	3.5	4.2	403	0	331	570	22
24...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
20...	74	71	220	4.4	4.9	460	0	377	540	32
21...	78	92	260	4.7	5.5	458	0	376	650	31
27...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
17...	77	55	150	3.2	4.7	394	0	323	370	21
SEP										
09...	--	--	--	--	--	--	--	--	--	--
15...	62	52	170	3.9	4.3	390	0	320	400	22
22...	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)
OCT										
24...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	--	--	--	--	--	--	--	--	--	--
17...	.3	13	--	969	1.32	4.97	--	.11	--	.00
DEC										
06...	--	--	--	--	--	--	--	--	--	--
17...	.3	15	--	1010	1.37	4.64	--	.20	--	.01
JAN										
19...	.4	15	--	1140	1.55	5.23	--	.28	--	.06
21...	--	--	--	--	--	--	--	--	--	--
FEB										
16...	.3	14	--	986	1.34	7.19	--	.22	--	.12
MAR										
05...	--	--	--	--	--	--	--	--	--	--
20...	.3	7.6	--	1050	1.43	34.0	--	.33	--	.08
25...	.3	9.3	--	794	1.08	24.4	--	--	.56	--
APR										
09...	--	--	--	--	--	--	--	--	--	--
21...	.3	13	--	1030	1.40	8.90	--	.24	--	.08
MAY										
06...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	730	--	--	--	590	.21	--	.16
JUN										
03...	--	--	--	--	--	--	--	--	--	--
22...	.3	14	--	1140	1.55	1.66	--	.24	--	.01
24...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
20...	.4	11	--	1180	1.60	.73	--	.03	--	.02
21...	.4	13	--	1360	1.85	4.04	--	.15	.15	.00
27...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
17...	.3	13	--	885	1.20	3.35	--	.04	--	.06
SEP										
09...	--	--	--	--	--	--	--	--	--	--
15...	.6	10	--	913	1.24	1.70	--	.01	--	.02
22...	--	--	--	--	--	--	--	--	--	--

GREEN RIVER BASIN
09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
OCT										
24...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	--	--	--	--	--	--	--	--	--	--
17...	--	1.1	--	1.1	--	1.2	.21	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
17...	--	.68	--	.69	--	.89	.12	--	--	--
JAN										
19...	--	1.1	--	1.2	--	1.5	.07	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
FEB										
16...	--	1.5	--	1.6	--	1.8	.79	--	--	--
MAR										
05...	--	--	--	--	--	--	--	--	--	--
20...	--	2.2	--	2.3	--	2.6	1.8	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
APR										
09...	--	--	--	--	--	--	--	--	--	--
21...	--	2.8	--	2.9	--	3.1	1.5	--	--	--
MAY										
06...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
25...	--	6.3	--	6.5	--	6.7	3.3	--	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
22...	--	.67	--	.68	--	.92	.17	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
20...	--	.26	--	.28	--	.31	.06	--	--	--
21...	.00	1.7	.52	1.7	.52	1.9	.56	.03	.04	.12
27...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
17...	--	.48	--	.54	--	.58	.07	--	--	--
SEP										
09...	--	--	--	--	--	--	--	--	--	--
15...	--	.40	--	.42	--	.43	.04	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-A PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-SPECT-METRIC (MG/M2)
OCT										
24...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
DEC										
06...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
JAN										
19...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
FEB										
16...	--	--	--	--	--	--	--	--	--	--
MAR										
05...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
APR										
09...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
MAY										
06...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUN										
03...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
25...	1300	.2	--	--	--	--	--	--	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
21...	4400	2.7	8.46	10.5	104	60.0	.60	.426	.100	.100
27...	--	--	--	--	--	--	--	--	--	--
AUG										
05...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
SEP										
09...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

GREEN RIVER BASIN
09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)
NOV 17...	1440	--	--	--	--	--	--	160	--	--	--
DEC 17...	1430	--	--	--	--	--	--	140	--	--	--
JAN 19...	1400	690	0	2	2	0	0	160	10	3	0
FEB 16...	1130	--	--	--	--	--	--	150	--	--	--
MAR 20...	1400	--	--	--	--	--	--	120	--	--	--
25...	1205	--	--	--	--	--	--	100	--	--	--
APR 21...	0930	36000	--	36	--	10	--	120	10	--	40
JUN 22...	1400	--	--	--	--	--	--	170	--	--	--
JUL 20...	1000	930	--	3	--	0	--	230	<10	--	0
21...	1200	--	--	--	--	--	--	250	--	--	--
AUG 17...	1330	--	--	--	--	--	--	170	--	--	--
SEP 15...	1700	--	--	--	--	--	--	170	--	--	--

DATE	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
NOV 17...	--	--	--	--	60	--	--	--	--	--	--
DEC 17...	--	--	--	--	0	--	--	--	--	--	--
JAN 19...	0	10	5	1100	10	<100	7	60	60	150	100
FEB 16...	--	--	--	--	10	--	--	--	--	--	--
MAR 20...	--	--	--	--	20	--	--	--	--	--	--
25...	--	--	--	--	20	--	--	--	--	--	--
APR 21...	--	50	--	--	20	<100	--	140	--	1900	--
JUN 22...	--	--	--	--	10	--	--	--	--	--	--
JUL 20...	--	10	--	1500	30	<100	--	90	--	120	--
21...	--	--	--	--	80	--	--	--	--	--	30
AUG 17...	--	--	--	--	30	--	--	--	--	--	--
SEP 15...	--	--	--	--	60	--	--	--	--	--	--

DATE	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV 17...	--	--	--	--	--	--	--	--	--	--	--
DEC 17...	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	.0	.0	6	6	<50	4	1	1	1.8	40	10
FEB 16...	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
APR 21...	.0	--	6	--	100	--	3	--	--	320	--
JUN 22...	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	.0	--	6	--	<50	--	1	--	--	20	--
21...	--	--	--	--	--	--	--	--	--	--	--
AUG 17...	--	--	--	--	--	--	--	--	--	--	--
SEP 15...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)
MAY 25...	1630	<11	59	6.4	26	5.1	22	.04	5.7

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUN 25.76		JUL 21.76	
TIME	0930		1200	
TOTAL CELLS/ML	1300		4400	
DIVERSITY: DIVISION	0.0		0.0	
.CLASS	0.0		0.0	
..ORDER	0.0		0.0	
...FAMILY	0.9		1.7	
....GENUS	0.9		1.7	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	--	-	200	5
...FRAGILARIACEAE				
....FRAGILARIA	--	-	200	5
...GOMPHONEMATACEAE				
....GOMPHONEMA	88	7	400	10
...NAVICULACEAE				
....CALONEIS	--	-	*	0
....NAVICULA	180	14	1200#	28
...NITZSCHIACEAE				
....NITZSCHIA	1100#	81	2400#	55

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

PERIPHYTON ANALYSES

JUNE 25, 1976
0930 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

JULY 21, 1976
1200 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...COLEOCHAETACEAE	
E	....COLEOCHAETE	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....CYLINDROTHECA	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--Lat 40°59'58", long 107°08'34", in SW¼NW¼ sec.15, T.12 N., R.87 W., Routt County, Hydrologic Unit 14050003, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi (0.3 km) downstream from Spring Creek, and 12 mi (19 km) east of Slater.

DRAINAGE AREA.--285 mi² (738 km²).

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

REVISED RECORDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder. Datum of gage is 6,831.00 ft (2,082.089 m) above mean sea level.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 2,000 acres (8.09 km²) above station.

AVERAGE DISCHARGE.--31 years, 227 ft³/s (6.429 m³/s), 164,500 acre-ft/yr (203 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,180 ft³/s (118 m³/s) Apr. 25, 1974, gage height, 8.95 ft (2.728 m), from recorded range in stage; minimum daily, 8.6 ft³/s (0.24 m³/s) Sept. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,600 ft³/s (45 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 22	2400	*1,610	45.6	6.55	1.996

Minimum discharge, 18 ft³/s (0.51 m³/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	30	44	28	35	31	41	545	1280	610	85	25
2	29	38	44	25	34	29	51	696	1300	518	105	23
3	26	36	50	27	33	29	62	827	1320	425	94	20
4	26	39	50	31	32	29	74	911	1360	359	96	19
5	29	39	50	31	31	29	90	981	1370	313	71	18
6	25	39	50	30	29	30	103	995	1340	268	58	19
7	25	39	50	29	31	31	94	988	1290	235	50	26
8	32	36	50	30	34	32	94	1060	1250	214	49	29
9	31	36	50	33	32	34	94	1100	1210	189	66	24
10	34	28	50	33	31	37	112	1140	1150	167	54	23
11	37	32	45	33	32	36	127	1240	1050	150	49	22
12	33	36	39	33	32	34	174	1100	946	134	53	22
13	35	42	33	30	33	31	211	1100	796	148	48	25
14	44	47	31	32	32	32	204	1310	772	121	46	25
15	42	50	30	34	31	34	211	1310	838	108	39	26
16	42	52	30	34	30	35	201	1070	859	93	35	26
17	38	52	30	33	30	36	162	1190	857	89	33	23
18	39	52	30	31	30	36	136	1350	870	86	35	22
19	38	52	30	32	30	36	129	1350	772	130	37	22
20	36	53	30	35	30	36	127	1330	719	109	33	23
21	35	54	30	35	28	36	140	1370	724	120	31	23
22	37	52	30	34	29	36	168	1480	793	96	29	25
23	38	50	30	33	30	36	224	1520	885	71	29	37
24	37	50	30	32	32	36	192	1390	720	85	32	33
25	31	50	30	30	32	36	234	1380	628	82	29	41
26	34	40	30	31	34	36	301	1320	588	127	27	33
27	40	42	30	33	36	36	258	1320	556	115	33	28
28	38	40	30	25	35	36	365	1360	539	92	30	26
29	38	40	30	36	34	36	480	1390	505	87	27	25
30	38	40	30	36	---	35	505	1330	491	84	25	25
31	38	---	30	36	---	36	---	1270	---	84	25	---
TOTAL	1066	1297	1146	995	922	1052	5344	36701	27773	5509	1453	758
MEAN	34.4	43.2	37.0	32.1	31.8	33.9	178	1184	926	178	46.9	25.3
MAX	44	54	50	36	36	37	505	1520	1370	610	105	41
MIN	25	28	30	25	28	29	41	545	491	71	25	18
AC-FT	2110	2570	2270	1970	1830	2090	10600	72800	55090	10930	2880	1500

CAL YR 1975 TOTAL 99508 MEAN 273 MAX 2110 MIN 20 AC-FT 197400
WTR YR 1976 TOTAL 84017 MEAN 230 MAX 1520 MIN 18 AC-FT 166600

09255000 SLATER FORK NEAR SLATER, CO

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼NE¼ sec.21, T.12 N., R.89 W., Moffat County, Hydrologic Unit 14050003, on right bank 15 ft (5 m) downstream from highway bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) south of Slater.

DRAINAGE AREA.--161 mi² (417 km²).

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 618: 1910-11. WSP 764: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft (2,012 m), from river-profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Diversions for irrigation of about 500 acres (2.02 km²) above station.

AVERAGE DISCHARGE.--45 years, 74.0 ft³/s (2.096 m³/s), 53,610 acre-ft/yr (66.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s (52.7 m³/s) May 8, 1974, gage height, 10.75 ft (3.277 m), from peak indicator; no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936, Aug. 29 to Sept. 3, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 430 ft³/s (12 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 14	2000	*722	20.4	8.44	2.573

Minimum daily discharge, 1.2 ft³/s (0.034 m³/s) Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	14	20	10	20	20	56	205	280	94	22	5.9
2	12	14	26	8.0	20	18	59	260	282	83	27	6.2
3	14	13	25	11	20	16	64	303	268	74	23	6.0
4	11	13	24	20	20	14	72	360	262	61	25	4.8
5	11	13	24	20	20	13	83	411	244	53	20	1.2
6	9.8	13	24	20	20	12	85	397	232	45	13	2.0
7	10	13	24	20	20	11	79	404	214	39	9.6	4.0
8	10	13	23	20	20	13	76	396	214	33	8.5	4.3
9	12	14	23	20	20	16	85	447	201	29	11	3.6
10	13	14	23	20	20	18	88	519	180	26	11	3.4
11	14	14	22	20	20	14	94	532	165	28	9.0	3.1
12	15	15	22	20	20	12	105	405	142	26	9.5	3.2
13	16	16	21	20	20	12	108	412	123	25	10	4.2
14	17	18	19	20	20	13	106	512	130	24	11	4.9
15	18	20	16	20	20	13	106	437	152	23	9.9	5.5
16	17	20	17	20	20	13	97	367	194	20	8.5	5.8
17	17	18	19	20	19	13	91	404	182	17	7.6	4.2
18	16	16	20	20	18	13	86	442	219	15	6.6	8.0
19	16	18	21	20	16	13	87	443	196	19	6.2	7.0
20	16	20	21	20	14	13	85	419	162	23	7.0	6.5
21	16	18	21	20	14	14	87	463	156	22	6.9	6.1
22	16	17	21	20	15	14	98	597	161	12	5.5	7.5
23	16	16	21	20	16	16	111	534	231	10	5.6	11
24	16	16	21	20	18	18	101	434	165	9.0	6.2	12
25	16	16	21	18	20	21	121	387	133	8.1	6.1	18
26	15	14	21	14	21	23	129	336	121	9.4	5.5	16
27	15	16	21	16	21	28	108	328	102	13	7.0	14
28	14	20	18	18	21	32	133	335	93	11	6.5	13
29	14	18	19	19	21	36	170	328	89	8.3	5.8	14
30	14	14	20	19	---	42	171	320	84	9.5	5.4	15
31	14	---	21	20	---	50	---	288	---	17	5.4	---
TOTAL	440.8	474	659	573.0	554	574	2941	12425	5377	886.3	321.3	220.4
MEAN	14.2	15.8	21.3	18.5	19.1	18.5	98.0	401	179	28.6	10.4	7.35
MAX	18	20	26	20	21	50	171	597	282	94	27	18
MIN	9.8	13	16	8.0	14	11	56	205	84	8.1	5.4	1.2
AC-FT	874	940	1310	1140	1100	1140	5830	24640	10670	1760	637	437

CAL YR 1975 TOTAL 36312.3 MEAN 99.5 MAX 928 MIN 4.8 AC-FT 72030
WTR YR 1976 TOTAL 25445.8 MEAN 69.5 MAX 597 MIN 1.2 AC-FT 50470

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¼NW¼ sec.8, T.12 N., R.90 W., Carbon County, Hydrologic Unit 14050003, on left bank 200 ft (61 m) upstream from highway bridge, 1,000 ft (305 m) upstream from Willow Creek, and 0.8 mi (1.3 km) west of Dixon.

DRAINAGE AREA.--988 mi² (2,559 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1910 to September 1923, March 1938 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1920(M)

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft (1,929.756 m) above mean sea level. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft (61 m) downstream at datum 2.98 ft (0.908 m) higher. Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft (69 m) downstream at datum 2.98 ft (0.908 m) higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft (259 m) downstream at present datum, and June 7 to Sept. 30, 1968, at site 225 ft (69 m) downstream at present datum.

REMARKS.--Records fair except those for June and July, which are poor. Diversions for irrigation of about 9,500 acres (38.4 km²) above station. One diversion above station for irrigation of about 3,000 acres (12.1 km²) below. Transbasin diversions above station.

AVERAGE DISCHARGE.--46 years (water years 1911-23, 1939-71), 514 ft³/s (14.56 m³/s), 372,400 acre-ft/yr (459 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 9,600 ft³/s (272 m³/s) May 26, 1920, gage height, 11.6 ft (3.54 m), present datum; maximum gage height, 11.74 ft (3.578 m) May 30, 1971; minimum daily discharge, 0.17 ft³/s (0.005 m³/s) Sept. 8, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,200 ft³/s (90.6 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 15	0800	*3410	96.6	8.97	2.734

Minimum daily discharge during period of operation, 0.29 ft³/s (0.008 m³/s) Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							245	1050	2000	648	15	1.4
2							255	1420	2060	560	20	1.4
3							265	1680	1990	460	18	.69
4							275	1880	2060	380	6.8	.84
5							290	2100	2010	300	10	7.1
6							310	2140	2000	250	2.0	4.5
7							330	1990	1890	200	2.4	6.0
8							358	2020	1860	150	2.4	7.1
9							394	2320	1770	110	2.6	7.1
10							426	2320	1650	70	2.4	2.6
11							482	2540	1450	50	1.2	2.8
12							654	2360	1250	31	2.6	1.9
13							920	1950	1000	45	1.9	1.9
14							808	2300	1040	60	1.9	3.8
15							768	2800	1080	29	2.1	3.1
16							702	1950	1100	11	2.4	4.2
17							546	1950	1000	8.6	1.6	1.4
18							462	2250	1200	4.0	1.8	.29
19							426	2430	1290	8.0	1.0	.36
20							386	2290	1320	8.5	.45	4.5
21							430	2350	1330	7.5	1.2	1.4
22							462	2690	1100	6.4	.84	1.9
23							642	3100	1300	6.2	.45	5.6
24							550	2620	1250	6.0	2.1	6.4
25							642	2450	1100	5.8	12	6.0
26							808	2310	960	11	6.0	4.5
27							678	2120	800	32	3.8	2.4
28							642	2220	660	30	4.9	2.8
29							941	2320	530	20	5.3	9.7
30							1110	2230	402	14	3.1	3.8
31							---	2020	---	10	1.9	---
TOTAL							16207	68170	40452	3532.0	140.14	107.48
MEAN							540	2199	1348	114	4.52	3.58
MAX							1110	3100	2060	648	20	9.7
MIN							245	1050	402	4.0	.45	.29
AC-FT							32150	135200	80240	7010	278	213

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-76.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
DEC 05...	1500	E88	340	8.3	.0	--	11.0	--	--	--	--
MAR 01...	0830	E50	315	7.6	.0	--	11.1	--	--	--	--
JUN 07...	0815	E1890	85	8.0	9.5	--	9.3	--	--	--	--
JUL 17...	1300	3.0	325	7.9	25.0	2	6.1	2.6	130	0	35
AUG 30...	0900	E3.1	305	7.7	17.0	--	6.4	--	--	--	--

E Estimate.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
DEC 05...	--	--	--	--	--	--	--	--	--	--	--
MAR 01...	--	--	--	--	--	--	--	--	--	--	--
JUN 07...	--	--	--	--	--	--	--	--	--	--	--
JUL 17...	9.6	14	.5	2.4	157	0	129	23	3.1	.3	12
AUG 30...	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
DEC 05...	--	--	--	.02	.02	--	--	--	--	.40
MAR 01...	--	--	--	.06	.04	--	--	--	--	.78
JUN 07...	--	--	--	.02	.04	--	--	--	--	.26
JUL 17...	177	.24	1.43	.00	.04	.00	.00	.46	.24	.46
AUG 30...	--	--	--	.01	.01	--	--	--	--	.32

DATE	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
DEC 05...	.22	.42	.01	.00	--	--	--	40	--	--
MAR 01...	.49	.84	.23	.09	--	--	--	100	--	--
JUN 07...	.13	.28	.20	.01	--	--	--	100	--	--
JUL 17...	.24	.46	.03	.03	.05	.15	60	120	320	2.1
AUG 30...	.27	.33	.02	.00	--	--	--	90	--	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL ANTIMONY (SB) (UG/L)	SUSPENDED ANTIMONY (SB) (UG/L)	DISSOLVED ANTIMONY (SB) (UG/L)	TOTAL ANTIMONY IN BOTTOM MATERIAL (UG/G)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
DEC 05...	1500	E88	0	0	0	--	2	0	2	--	<10	<10
MAR 01...	0830	E50	--	--	0	1	--	--	1	5	10	9
JUN 07...	0815	E1890	0	0	0	1	1	0	1	3	<10	<10
AUG 30...	0900	E3.1	0	0	0	0	2	0	2	50	<10	<10

E Estimate.

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	SUSPENDED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)
DEC 05...	0	--	<50	<50	0	<10	<9	1	--	480	440	--
MAR 01...	1	9	<50	<50	0	10	8	2	8	--	--	6700
JUN 07...	0	<10	<50	<50	0	<10	<7	3	<10	660	560	5100
AUG 30...	0	2	<50	<49	1	10	9	1	4	200	110	3100

DATE	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL NICKEL (NI) (UG/L)
DEC 05...	<100	<99	1	--	40	20	20	.0	.0	.0	--	<50
MAR 01...	100	98	2	10	150	110	40	--	--	.0	.1	50
JUN 07...	<100	<100	0	<10	20	10	10	.0	.0	.0	.0	<50
AUG 30...	<100	<100	0	10	100	70	30	.0	.0	.0	.0	<50

DATE	SUSPENDED NICKEL (NI) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
DEC 05...	<48	2	--	0	0	0	.5	10	0	10	9.3	.6
MAR 01...	48	2	5	--	--	0	1.5	10	0	10	8.1	2.2
JUN 07...	<50	0	<10	0	0	0	3.2	30	20	10	5.6	--
AUG 30...	<50	0	8	0	0	0	1.5	0	0	0	5.2	.5

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	TOTAL PCB (UG/L)
JUN 07...	0815	E1890	51	41	<.7	1.9	1.5	1.4	1.2	1.2	.0

E Estimate.

DATE	POLYCHLORINATED NAPHTHALENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLORDANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTACHLOR (UG/L)
JUN 07...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL .HEPTACHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL METHYL TRITHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL TOXAPHENE (UG/L)	TOTAL TRITHION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JUN 07...	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR						
13...	1230	4.5	990	931	2490	83
MAY						
13...	1300	6.0	1940	150	786	--
JUN						
09...	1300	11.0	1810	79	386	63
JUL						
14...	1145	20.0	60	6	.97	50
17...	1300	25.0	3.0	4	.03	49
AUG						
19...	1400	21.0	.69	29	.05	56
SEP						
16...	1500	17.0	4.2	6	.07	48

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
JUL							
14...	1145	60	20.0	0	0	0	0

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JUL							
14...	0	0	1	3	8	56	100

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

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                          JULY 17, 1976
                           1300 HOURS

                    IDENTIFICATION OF PERIPHYTON

   _ORGANISM__NAME_______________   _COMMON__NAME______

   CHLOROPHYTA                      GREEN ALGAE
   .CHLOROPHYCEAE
   ..CLADOPHORALES
   ...CLADOPHORACEAE
 E ....CLADOPHORA
   CHRYSOPHYTA
   .BACILLARIOPHYCEAE               DIATOMS
   ..CENTRALES                      CENTRIC
   ...COSCINODISCACEAE
 O ....MELOSIRA
   ..PENNALES                       PENNATE
   ...ACHNANTHACEAE
 O ....ACHNANTHES
 O ....COCCONEIS
   ...CYMBELLACEAE
 O ....CYMBELLA
 O ....EPITHEMIA
   ...DIATOMACEAE
 O ....DIATOMA
   ...FRAGILARIACEAE
 O ....FRAGILARIA
 O ....SYNEDRA
   ...GOMPHONEMATACEAE
 O ....GOMPHONEMA
   ...NAVICULACEAE                  NAVICULOID
 O ....CALONEIS
 O ....NAVICULA
 O ....PINNULARIA
   ...NITZSCHIACEAE
 O ....NITZSCHIA
   ...SURIRELLACEAE
 O ....CYMATOPLEURA
 O ....SURIRELLA
   ...ACHNANTHACEAE
 O ....RHOICOSPHENIA
   CYANOPHYTA                       BLUE-GREEN ALGAE
   .MYXOPHYCEAE
   ..CHROOCOCCALES                  COCCOID
   ...CHROOCOCCACEAE
 O ....AGMENELLUM
   ..OSCILLATORIALES                FILAMENTOUS
   ...OSCILLATORIACEAE
 O ....LYNGBYA
   EUGLENOPHYTA                     EUGLENOIDS
   .EUGLENOPHYCEAE
   ..EUGLENALES
   ...EUGLENACEAE
 O ....TRACHELOMONAS


NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
      O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
      ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE
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09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	JUL 17.76
TIME	1300
TOTAL CELLS/ML	320
DIVERSITY: DIVISION	0.4
.CLASS	0.4
..ORDER	0.4
...FAMILY	1.7
....GENUS	1.8

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ZYGNEMATALES		
...DESMIDIACEAE		
....COSMARIUM	28	9
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	14	4
....RHOICOSPHENIA	14	4
...GOMPHONEMATACEAE		
....GOMPHONEMA	42	13
...NAVICULACEAE		
....NAVICULA	28	9
...NITZSCHIACEAE		
....NITZSCHIA	190#	61

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

BENTHIC INVERTEBRATE ANALYSES

DATE	JUL 17.76
TIME	1300
TOTAL COUNT	36
DIVERSITY: PHYLUM	0.0
.CLASS	0.2
..ORDER	2.6
...FAMILY	3.0
....GENUS	3.4
....GENUS-INSECTA	3.3

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.ARACHNOIDEA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1
.INSECTA	
..COLEOPTERA	
...DYTISCIDAE	
....OREODYTES	1
...ELMIDAE	
....ZAITZEVIA	1
..DIPTERA	
...CHIRONOMIDAE	
....CRICOTOPUS	1
....EUKIEFFERIELLA	2
...RHAGIONIDAE	
....ATHERIX	4
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	3
...TRICORYTHIDAE	
....TRICORYTHODES	1
..HEMIPTERA	
...CORIXIDAE	
....HESPEROCORIXA	5
..ODONATA	
...GOMPHIDAE	
....OPHIOGOMPHUS	1
..PLECOPTERA	
...PTERONARCIDAE	
....PTERONARCELLA	3
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	1
...HYDROPSYCHIDAE	
....ARCTOPSYCHE	1
....CHEUMATOPSYCHE	1
....HYDROPSYCHE	10

09258000 WILLOW CREEK NEAR DIXON, WY

LOCATION.--Lat 40°54'56", long 107°31'16", on line between secs.8 and 17, T.11 N., R.90 W., Moffat County, CO, Hydrologic Unit 14050003, on right bank 6.2 mi (10.0 km) south of Colorado-Wyoming State line, 8.0 mi (12.9 km) upstream from mouth, and 8.3 mi (13.4 km) south of Dixon.

DRAINAGE AREA.--24 mi² (62 km²), approximately.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. One small ditch diverts water above station for irrigation. Regulation by Elk Lake, capacity, 400 acre-ft (493,000 m³).

AVERAGE DISCHARGE.--23 years, 9.72 ft³/s (0.275 m³/s), 7,040 acre-ft/yr (8.68 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 319 ft³/s (9.03 m³/s) Apr. 25, 1974, gage height, 5.42 ft (1.652 m), from rating curve extended above 160 ft³/s (4.5 m³/s); no flow Sept. 17-19, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft³/s (2.0 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 8	0730	151	4.28	4.35	1.326
May 22	1100	187	5.30	*4.65	1.417

Minimum daily discharge, 0.20 ft³/s (0.006 m³/s) July 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.4	3.3	2.5	3.1	3.8	8.4	34	36	27	3.6	1.3
2	3.4	3.4	4.0	2.3	3.2	3.6	8.2	39	40	22	4.1	1.3
3	3.4	3.2	4.0	2.7	3.4	3.6	10	39	41	17	3.8	1.2
4	3.4	3.1	4.0	3.0	3.5	3.7	15	43	44	14	4.5	1.1
5	3.6	3.0	4.0	3.0	3.6	4.0	18	42	44	12	4.3	1.1
6	3.2	3.1	4.0	3.0	3.5	4.2	10	39	43	10	3.2	1.1
7	3.2	3.3	4.0	3.0	3.5	4.6	10	39	40	9.2	2.6	2.4
8	4.4	3.2	4.0	3.0	3.8	5.0	17	66	45	8.3	2.6	2.0
9	4.2	3.1	4.0	3.0	4.0	5.2	24	46	40	7.4	3.1	1.5
10	4.4	3.1	4.0	3.0	4.2	5.5	19	44	39	7.7	2.8	1.4
11	4.6	3.3	3.9	3.0	4.1	5.7	24	42	37	7.6	2.3	1.4
12	4.2	3.0	3.6	3.0	4.2	5.8	34	32	27	6.6	2.3	1.7
13	5.0	3.1	3.2	3.0	4.1	5.8	25	32	21	6.0	2.2	1.8
14	4.8	3.3	3.1	3.0	4.0	5.8	29	44	21	5.4	2.1	1.7
15	4.2	3.5	3.0	3.0	4.0	5.8	24	38	24	5.4	2.0	1.9
16	4.6	3.3	3.0	3.0	3.8	5.8	16	30	29	3.2	1.9	1.8
17	4.0	3.1	3.0	3.0	3.9	5.8	16	29	22	1.1	1.7	1.6
18	5.4	2.9	3.0	3.0	3.9	5.8	15	31	28	.20	1.7	1.4
19	4.2	2.7	3.0	3.0	3.9	5.9	12	31	26	.49	1.6	1.6
20	3.8	2.6	3.0	3.0	3.8	6.0	12	25	24	4.3	1.5	1.6
21	4.0	2.8	3.0	3.0	3.9	6.2	16	64	29	6.4	1.7	1.7
22	3.8	3.0	3.0	3.0	3.9	6.2	24	95	33	4.8	1.6	2.2
23	3.5	3.0	3.0	3.0	3.8	6.2	19	58	54	4.1	1.5	3.7
24	3.5	3.0	3.0	3.0	3.7	7.0	22	35	33	3.7	1.6	2.8
25	3.5	3.0	3.0	2.9	4.0	5.2	32	31	24	3.6	1.5	3.5
26	3.6	3.0	3.0	2.6	4.0	4.0	22	28	23	4.4	1.5	2.2
27	3.7	3.0	3.0	2.8	4.0	4.4	20	29	22	4.9	1.2	1.9
28	3.8	3.0	3.0	3.0	4.0	3.1	29	31	24	3.8	1.0	1.8
29	3.7	3.0	3.0	3.0	4.0	3.7	34	32	22	3.3	1.3	1.8
30	3.6	3.0	3.0	3.0	---	3.8	26	36	20	3.2	1.3	1.9
31	3.4	---	3.0	3.0	---	5.8	---	32	---	3.3	1.2	---
TOTAL	121.2	92.5	104.1	90.8	110.8	157.0	590.6	1236	955	220.39	69.1	54.4
MEAN	3.91	3.08	3.36	2.93	3.82	5.06	19.7	39.9	31.8	7.11	2.23	1.81
MAX	5.4	3.5	4.0	3.0	4.2	7.0	34	95	54	27	4.5	3.7
MIN	3.1	2.6	3.0	2.3	3.1	3.1	8.2	25	20	.20	1.0	1.1
AC-FT	240	183	206	180	220	311	1170	2450	1890	437	137	108

CAL YR 1975 TOTAL 4782.80 MEAN 13.1 MAX 112 MIN 2.1 AC-FT 9490
WTR YR 1976 TOTAL 3801.89 MEAN 10.4 MAX 95 MIN .20 AC-FT 7540

09258200 DRY COW CREEK NEAR BAGGS, WY

LOCATION.--Lat 41°20'24", long 107°40'14", in SE¼SE¼ sec.19, T.16 N., R.91 W., Carbon County, Hydrologic Unit 14050004, 1.6 mi (2.6 km) upstream from county road, 4.3 mi (6.9 km) upstream from mouth, and 21 mi (34 km) north of Baggs.

DRAINAGE AREA.--49.7 mi^2 (128.7 km^2).

PERIOD OF RECORD.--April to June 1976.

REMARKS.--Peak-flow information also collected at this site.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR								
20...	0950	1.3	--	6.5	--	93	.33	95
20...	1000	1.3	2600	6.5	40	--	--	--
MAY								
13...	0905	.16	3800	6.0	9	43	.02	89
JUN								
09...	0910	.04	--	15.0	25	171	.02	98

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
APR							
20...	0950	1.3	6.5	--	9	13	48
MAY							
13...	0905	.16	6.0	--	10	14	57
JUN							
09...	0910	.04	15.0	12	20	21	44

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
APR							
20...	90	94	96	97	98	98	100
MAY							
13...	91	94	96	99	100	--	--
JUN							
09...	70	77	87	96	99	100	--

09259700 LITTLE SNAKE RIVER NEAR BAGGS, WY

LOCATION.--Lat 41°00'17", long 107°54'59", in SW¼ sec.18, T.12 N., R.94 W., Carbon County, Hydrologic Unit 14050003, at former discharge station, 600 ft (183 m) upstream from Wyoming-Colorado State line, 0.5 mi (0.8 km) upstream from Scandinavian Wash, and 15 mi (24 km) west of Baggs.

DRAINAGE AREA.--3,020 mi² (7,820 km²), approximately.

PERIOD OF RECORD.--Water years 1965 to current year.

REMARKS.--Water discharge obtained from rating table for outside gage at sampling site defined by discharge measurements made at Little Snake River near Dixon, 9.2 mi (14.8 km) upstream.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
APR								
13...	1525	864	--	6.5	--	150	52	40
MAY								
13...	1410	1880	--	6.0	--	65	6	19
30...	1100	2320	7.8	14.0	9.1	--	--	--
JUN								
09...	1400	1810	--	11.0	--	42	3	12
JUL								
14...	1145	60	--	22.0	--	120	0	30
AUG								
19...	1400	.69	--	21.0	--	150	0	35

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
APR									
13...	12	18	.6	2.8	120	0	98	75	5.4
MAY									
13...	4.6	6.4	.3	1.9	72	0	59	16	4.7
30...	--	--	--	--	--	--	--	--	--
JUN									
09...	3.2	4.7	.3	.9	47	0	39	13	1.9
JUL									
14...	10	21	.4	2.3	150	0	123	30	2.6
AUG									
19...	14	35	1.3	2.6	210	0	172	44	8.0

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)
APR								
13...	.2	15	230	.31	537	.23	.47	--
MAY								
13...	.0	13	101	.14	513	.09	.15	--
30...	--	--	--	--	--	--	--	480
JUN								
09...	.1	9.9	69	.09	337	.07	.04	--
JUL								
14...	.3	14	184	.25	29.8	.00	.03	--
AUG								
19...	.4	7.0	250	.34	.47	.11	.06	--

09259700 LITTLE SNAKE RIVER NEAR BAGGS, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

MAY 30, 1976
1100 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....COSMARIUM	
	CHRYSOPHYTA	DIATOMS
	.BACILLARIOPHYCEAE	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....HANNAEA	
E	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....FRUSTULIA	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

DATE	MAY 30,76
TIME	1100
TOTAL CELLS/ML	480
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	2.5
....GENUS	2.8

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	36	8
...CYMBELLACEAE		
....RHOPALODIA	18	4
...FRAGILARIACEAE		
....SYNEDRA	18	4
...GOMPHONEMATACEAE		
....GOMPHONEMA	160#	34
...MERIDIONACEAE		
....MERIDION	18	4
...NAVICULACEAE		
....CALONEIS	18	4
....NAVICULA	89#	19
....PINNULARIA	18	4
...NITZSCHIACEAE		
....NITZSCHIA	89#	19
...SURIRELLACEAE		
....SURIRELLA	18	4

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

BEAR RIVER BASIN

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY

LOCATION.--Lat 40°52'25", long 110°47'00", in SE¼SW¼ sec.26, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, Wasatch National Forest, on right bank 4.1 mi (6.6 km) upstream from mouth, 11.5 mi (18.5 km) upstream from Utah-Wyoming State line, and 28.7 mi (46.2 km) south of Evanston.

DRAINAGE AREA.--34.6 mi² (89.6 km²).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft (2,670 m), from topographic map.

REMARKS.--Records good except those for winter months, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 631 ft³/s (17.9 m³/s) July 4, 1975, gage height, 4.15 ft (1.265 m); minimum, 5.9 ft³/s (0.17 m³/s) Apr. 8, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 334 ft³/s (9.46 m³/s) June 8, gage height, 3.19 ft (0.972 m); minimum observed, 8.5 ft³/s (0.24 m³/s) Mar. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	16	9.2	10	9.0	9.0	9.0	23	194	120	40	16
2	17	16	9.0	10	9.0	8.9	9.0	32	232	120	38	15
3	17	16	9.0	10	9.0	8.8	9.0	39	238	114	43	15
4	17	16	9.0	10	9.0	8.7	10	41	249	109	38	15
5	17	16	9.0	10	9.0	8.6	10	40	249	105	33	14
6	17	15	9.0	9.9	9.0	8.5	10	39	255	101	30	15
7	19	14	8.0	10	9.0	8.5	11	44	256	95	29	21
8	21	16	8.5	10	9.0	8.5	11	46	264	94	27	17
9	21	17	9.0	9.9	9.0	8.5	11	46	254	92	26	16
10	20	17	9.0	9.5	9.0	8.5	11	52	231	88	25	15
11	19	17	9.5	9.2	9.0	8.5	12	71	206	85	24	16
12	19	17	9.5	9.8	9.0	9.0	12	82	164	83	23	19
13	20	16	10	9.2	9.0	9.0	12	98	144	78	22	18
14	19	15	10	9.5	9.0	9.0	12	124	131	72	22	17
15	21	14	10	9.5	9.0	9.0	13	151	114	66	21	17
16	19	13	10	9.2	9.0	9.0	13	151	112	62	21	16
17	19	12	10	9.2	9.0	9.0	14	186	104	65	20	16
18	18	11	9.8	8.9	9.0	9.0	14	224	96	73	21	16
19	17	10	10	9.0	9.0	9.0	13	231	101	62	21	16
20	17	10	10	9.3	9.0	9.0	12	230	130	57	19	16
21	16	9.0	10	9.5	9.0	9.0	12	211	149	55	18	15
22	17	9.0	10	9.8	9.0	9.0	14	176	148	49	18	22
23	18	8.4	10	9.8	9.0	9.0	16	167	125	45	25	19
24	18	8.5	10	10	9.0	9.0	19	178	111	43	20	19
25	18	9.0	10	10	9.0	9.0	19	154	112	43	19	19
26	18	9.0	10	10	9.0	9.0	19	130	113	42	18	18
27	18	9.2	10	9.7	9.0	9.0	28	178	113	39	18	16
28	17	8.6	10	9.6	9.0	9.0	20	217	118	38	17	16
29	17	8.5	10	9.2	9.0	9.0	15	216	122	36	17	15
30	17	9.0	10	8.9	---	9.0	17	173	117	57	17	15
31	16	---	10	8.9	---	9.0	---	164	---	47	16	---
TOTAL	561	382.2	297.5	297.5	261.0	275.0	407.0	3914	4952	2235	746	500
MEAN	18.1	12.7	9.60	9.60	9.00	8.87	13.6	126	165	72.1	24.1	16.7
MAX	21	17	10	10	9.0	9.0	28	231	264	120	43	22
MIN	16	8.4	8.0	8.9	9.0	8.5	9.0	23	96	36	16	14
AC-FT	1110	758	590	590	518	545	807	7760	9820	4430	1480	992

CAL YR 1975 TOTAL 25489.4 MEAN 69.8 MAX 502 MIN 7.3 AC-FT 50560
WTR YR 1976 TOTAL 14828.2 MEAN 40.5 MAX 264 MIN 8.0 AC-FT 29410

10010500 HILLIARD-EAST FORK CANAL NEAR STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 40°54'49", long 110°49'25", in NW¼ sec.16, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 300 ft (91 m) downstream from road bridge, 0.8 mi (1.3 km) downstream from head, and 28 mi (45 km) south of Evanston.

PERIOD OF RECORD.--November 1941 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 8,500 ft (2,590 m), from topographic map.

REMARKS.--Records good. Canal diverts from East Fork Bear River for irrigation of about 2,600 acres (10.5 km^2) in Hilliard Flat area in Wyoming.

AVERAGE DISCHARGE.--34 years, 4.94 ft^3/s (0.14 m^3/s), 3,580 acre-ft/yr (4.41 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 44 ft^3/s (1.25 m^3/s) July 3-5, 8, 1963; no flow during winter and at other times each year except 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8								4.3	24	.55	.97
2	2.9								13	24	.55	.97
3	2.9								13	24	.55	5.0
4	2.9								13	24	.50	5.2
5	6.0								13	24	.50	3.9
6	13								13	21	.50	2.3
7	13								21	16	.65	2.2
8	14								29	16	.65	2.1
9	13								28	16	.65	2.2
10	13								27	17	.65	1.8
11	13								26	16	.60	1.7
12	13								25	15	.60	1.7
13	13								25	16	.60	1.7
14	13								24	18	.97	1.4
15	13								24	21	.97	1.3
16	11								23	20	.97	1.3
17	.97								23	19	.91	1.2
18	.91								22	20	.91	1.1
19	.85								22	19	.91	1.0
20	.85								24	18	.78	1.0
21	.78								28	18	.78	.97
22	.85								25	17	.78	1.0
23	.91								24	16	.78	.97
24	1.2								24	16	.55	.97
25	.65								23	16	.91	.97
26	0								23	15	2.2	.91
27	0								20	6.4	2.2	.91
28	0								21	.78	1.4	.91
29	0								24	.71	1.0	.91
30	0				---				24	.65	.97	.91
31	0	---			---		---		---	.60	.97	---
TOTAL	167.47	0	0	0	0	0	0	0	648.3	495.14	26.51	49.47
MEAN	5.40	0	0	0	0	0	0	0	21.6	16.0	.86	1.65
MAX	14	0	0	0	0	0	0	0	29	24	2.2	5.2
MIN	0	0	0	0	0	0	0	0	4.3	.60	.50	.91
AC-FT	332	0	0	0	0	0	0	0	1290	982	53	98

CAL YR 1975 TOTAL 1530.17 MEAN 4.19 MAX 32 MIN 0 AC-FT 3040
WTR YR 1976 TOTAL 1386.89 MEAN 3.79 MAX 29 MIN 0 AC-FT 2750

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT

LOCATION.--Lat 40°50'20", long 110°55'35", in NE¼ sec.9, T.1 N., R.9 E., Summit County, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 1,380 ft (421 m) downstream from Whitney Dam, 7 mi (11 km) upstream from Deer Creek, and 21.5 mi (34.6 km) northeast of Oakley.

DRAINAGE AREA.--6.79 mi² (17.59 km²).

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965, published as "at Whitney Dam Site".

REVISED RECORD.--WRD UT 1973: Drainage area.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft (2,780 m), from topographic map.

REMARKS.--Records good. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm³) since July 1964.

AVERAGE DISCHARGE.--10 years (water years 1967-76), 8.77 ft³/s (0.25 m³/s), 6,350 acre-ft/yr (7.83 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft³/s (4.11 m³/s) June 13, 1965; maximum gage height, 3.06 ft (0.933 m) June 20, 1967; no flow July 16 to Sept. 30, Nov. 14-20, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 97 ft³/s (2.75 m³/s) July 12, gage height, 2.83 ft (0.863 m); minimum, 0.10 ft³/s (0.003 m³/s) Oct. 18, 19, 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	19	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11	17
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.0	13
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	---	[illegible]	[illegible]	---	[illegible]	---	[illegible]	---	[illegible]	[illegible]	---
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AC-FT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1975 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] AC-FT [illegible]
WTR YR 1976 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] AC-FT [illegible]

10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 40°56'40", long 110°51'40", in NW¼SW¼ sec.6, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, on left bank 0.8 mi (1.3 km) downstream from Deer Creek, 2.1 mi (3.4 km) upstream from mouth, and 22.9 mi (36.8 km) south of Evanston.

DRAINAGE AREA.--52.2 mi² (135.2 km²).

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,190 ft (2,496 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm³), since July 1966.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 511 ft³/s (14.5 m³/s) June 8, 1975, gage height, 4.00 ft (1.219 m); minimum, 4.6 ft³/s (0.13 m³/s) Sept. 2, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 339 ft³/s (9.60 m³/s) May 14, gage height, 3.30 ft (1.006 m); minimum, 4.6 ft³/s (0.13 m³/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	11	12	10	9.0	9.6	51	129	31	55	5.3
2	15	15	11	12	10	10	13	67	131	29	46	19
3	15	16	11	12	10	10	13	88	126	27	24	60
4	15	15	11	11	10	10	12	98	118	26	21	64
5	14	15	11	11	10	10	13	104	109	24	20	50
6	12	13	11	10	10	10	12	111	101	23	19	50
7	14	13	11	10	10	10	11	119	97	23	18	47
8	17	14	11	10	10	11	15	127	91	21	18	37
9	16	14	11	10	10	11	15	167	85	20	16	30
10	18	14	11	11	10	10	17	187	78	18	17	24
11	19	14	11	10	10	10	21	229	79	19	8.0	17
12	25	14	11	10	10	10	22	208	77	58	7.9	12
13	19	14	11	10	11	9.0	21	210	82	120	7.3	10
14	19	14	11	10	13	8.8	20	256	79	118	7.0	9.6
15	14	14	11	9.6	11	10	19	263	71	112	6.7	8.1
16	15	13	11	9.2	10	9.0	16	227	64	108	7.3	7.8
17	16	13	11	9.6	10	8.6	15	236	64	107	6.5	7.0
18	16	13	11	10	11	8.9	15	241	59	106	7.5	7.3
19	13	13	11	10	11	10	16	236	51	104	7.5	6.8
20	12	13	11	10	11	11	16	222	47	102	6.6	7.1
21	12	12	11	11	10	11	18	195	46	100	6.4	6.7
22	15	12	11	11	10	11	26	190	43	97	6.4	7.8
23	18	12	11	12	10	11	29	166	42	92	6.1	7.5
24	21	12	11	12	10	10	25	167	41	91	7.7	7.9
25	20	12	11	11	10	9.6	24	165	38	80	6.5	7.7
26	18	12	11	10	9.9	10	27	162	37	86	6.0	7.6
27	16	12	11	10	9.5	10	25	150	35	77	6.5	7.4
28	24	12	11	12	9.0	10	22	157	33	58	6.1	7.3
29	20	12	11	10	9.6	10	27	152	33	58	5.7	7.3
30	17	12	11	10	---	10	37	134	33	59	5.2	7.2
31	15	---	11	10	---	10	---	127	---	57	5.0	---
TOTAL	506	400	341	323.0	296.0	308.0	540.6	5145	2129	2062	400.1	560.2
MEAN	16.3	13.3	11.0	10.4	10.2	9.94	18.0	166	71.0	66.5	12.9	18.7
MAX	25	16	11	12	13	11	37	263	131	120	55	64
MIN	12	12	11	9.2	9.0	8.6	9.6	51	33	18	5.0	5.3
AC-FT	1000	793	676	640	587	611	1070	10210	4220	4090	794	1110

CAL YR 1975 TOTAL 20419.1 MEAN 55.9 MAX 429 MIN 9.5 AC-FT 40500
WTR YR 1976 TOTAL 13057.6 MEAN 35.7 MAX 263 MIN 5.0 AC-FT 25900

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼ sec.30, T.3 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, on left bank just downstream from West Fork and 2.8 mi (4.5 km) upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--July 1942 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft (2,427.7 m), from river-profile map.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated slightly by Whitney Reservoir, usable capacity, 4,200 acre-ft (5.18 hm³) since 1966. Three diversions above station for irrigation of about 265 acres (107,000 m²) above and 2,600 acres (10.5 km²) below station.

AVERAGE DISCHARGE.--34 years, 192 ft³/s (5.44 m³/s), 139,100 acre-ft/yr (172 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft³/s (84.4 m³/s) June 6, 1968, gage height, 3.79 ft (1.155 m); maximum gage height, 4.27 ft (1.301 m) June 6, 1957; minimum discharge determined, 16 ft³/s (0.45 m³/s) Apr. 11, 1951, Nov. 5, 1954, Nov. 1, 1955, Oct. 30, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft³/s (30.3 m³/s) May 18, gage height, 2.79 ft (0.850 m), no peak above base of 1,100 ft³/s (31.2 m³/s); minimum, 27 ft³/s (0.76 m³/s) Mar. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	60	58	47	40	40	40	210	706	230	121	37
2	56	60	53	47	40	40	45	250	824	235	116	38
3	56	58	52	49	39	40	50	265	846	207	93	76
4	55	59	52	49	38	40	55	280	889	183	87	72
5	53	58	50	49	38	40	60	290	827	176	76	69
6	45	58	50	49	38	39	55	300	866	161	71	67
7	48	58	50	49	38	38	60	320	809	156	63	76
8	57	59	49	46	37	37	65	354	789	153	60	67
9	56	53	49	45	36	35	66	398	789	147	60	59
10	57	59	48	44	36	35	76	480	789	142	59	53
11	55	56	50	45	42	37	75	600	623	140	52	49
12	53	55	49	45	44	35	80	580	477	170	50	48
13	56	56	49	45	40	35	85	620	417	237	67	48
14	55	57	50	45	40	36	80	750	360	217	65	47
15	51	58	50	45	39	36	80	630	290	196	64	45
16	57	56	50	44	38	35	75	760	273	180	65	44
17	63	55	51	44	39	36	76	860	256	181	63	42
18	63	53	50	44	37	35	75	930	227	210	60	41
19	60	56	50	43	38	34	79	930	229	187	67	41
20	57	55	50	42	39	40	80	900	310	178	66	42
21	57	58	50	41	40	36	87	810	300	172	62	42
22	61	55	50	40	40	36	86	730	461	166	61	46
23	56	55	50	40	40	37	96	670	332	161	52	48
24	59	55	50	40	40	36	112	690	283	149	51	48
25	60	53	50	44	40	35	131	600	240	147	44	46
26	60	55	49	40	43	30	130	533	237	148	61	47
27	65	55	46	39	43	35	135	600	227	130	61	45
28	60	56	47	37	43	35	110	700	248	130	64	45
29	72	61	47	38	43	35	105	822	253	125	55	48
30	65	60	47	38	---	36	135	666	236	150	38	45
31	63	---	47	40	---	36	---	609	---	140	38	---
TOTAL	1809	1690	1567	1309	1136	1130	2425	18620	14090	5530	1760	1513
MEAN	58.4	56.3	49.9	42.5	39.2	36.4	80.8	601	470	178	56.8	50.4
MAX	72	61	58	49	44	40	135	930	889	237	121	76
MIN	44	53	47	37	36	34	40	210	227	125	38	37
AC-FT	3590	3350	3110	2600	2250	2240	4810	36930	27950	10970	3490	3000

CAL YR 1975 TOTAL 87460 MEAN 240 MAX 1610 MIN 38 AC-FT 173500
WTR YR 1976 TOTAL 52272 MEAN 143 MAX 930 MIN 34 AC-FT 103700

10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°08'30", long 110°48'19", in SE¼SW¼ sec.35, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on right bank 1.2 mi (1.9 km) downstream from Willow Creek, 2 mi (3 km) upstream from Sulphur Creek Dam, and 11.5 mi (18.5 km) southeast of Evanston.

DRAINAGE AREA.--64.2 mi² (166.3 km²).

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft (2,188 m), from topographic map.

REMARKS.--Records good except those for winter months, which are poor. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--19 years, 17.0 ft³/s (0.48 m³/s), 12,320 acre-ft/yr (15.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft³/s (34.6 m³/s) Apr. 21, 1965, gage height, 6.02 ft (1.835 m); maximum gage height, 6.19 ft (1.887 m) Mar. 11, 1972 (backwater from ice); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 609 ft³/s (17.3 m³/s) Apr. 5, gage height, 5.37 ft (1.637 m); no flow Sept. 1-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.30	3.0	4.6	4.0	4.0	6.0	191	27	10	4.7	.84	0
2	.30	2.7	4.6	4.0	4.0	5.0	264	32	7.2	3.2	.54	0
3	.30	2.0	4.8	4.0	4.0	4.5	303	38	5.6	2.8	.48	0
4	.30	1.9	4.8	4.0	4.0	4.0	345	42	5.4	2.2	.42	0
5	.30	1.6	4.8	4.0	4.0	4.0	496	40	4.5	1.2	.33	0
6	.30	1.7	5.0	4.0	4.0	4.0	372	44	4.7	1.1	.26	0
7	.42	1.7	5.0	4.0	4.0	4.5	188	46	4.5	.68	.18	.14
8	.60	2.2	5.0	4.0	4.0	5.0	162	67	5.4	.54	.12	.08
9	.56	1.9	5.2	4.0	4.0	5.0	176	54	5.1	.51	.09	.07
10	.91	1.4	5.4	4.0	4.0	4.9	137	57	4.5	.54	.09	.06
11	.85	1.6	5.4	4.0	4.0	4.5	133	69	4.5	1.2	.09	.07
12	.88	1.6	5.6	4.0	4.0	4.0	96	66	5.6	1.3	.08	.09
13	.88	1.7	5.8	4.0	4.0	4.5	79	57	12	1.3	.07	.12
14	1.0	2.0	5.8	4.0	4.0	5.0	64	76	33	1.1	.07	.14
15	1.2	2.2	5.8	4.0	4.0	6.0	51	101	24	1.1	.06	.12
16	1.3	2.0	5.8	4.0	4.0	7.0	55	68	12	.92	.06	.08
17	1.3	3.2	5.8	4.0	4.0	9.0	50	66	14	.92	.06	.07
18	1.2	2.7	5.8	4.0	4.0	12	50	65	14	1.2	.07	.07
19	1.1	3.2	5.6	4.0	4.0	20	50	61	9.9	1.2	.07	.08
20	1.0	3.6	5.4	4.0	4.0	30	50	56	6.9	.92	.06	.08
21	1.1	3.0	5.2	4.0	4.0	40	50	60	3.4	.76	.05	.08
22	1.2	4.0	5.0	4.0	4.0	60	45	67	2.0	1.2	.06	.12
23	1.4	4.2	4.8	4.0	5.0	50	42	50	2.0	.57	.22	.12
24	1.3	4.2	4.6	4.0	6.0	80	40	40	2.4	.68	.18	.14
25	1.2	4.2	4.4	4.0	8.0	100	38	32	3.0	1.1	.16	.14
26	1.7	4.2	4.2	4.0	10	110	33	29	3.6	.50	.12	.14
27	2.0	4.6	4.0	4.0	12	100	35	22	2.5	.40	.09	.10
28	2.2	4.6	4.0	3.8	10	110	34	15	2.5	.33	.08	.09
29	2.7	4.6	4.0	4.0	8.0	120	27	12	2.2	.26	.07	.09
30	4.0	4.6	4.0	4.0	---	113	26	15	3.2	.28	.05	.09
31	4.9	---	4.0	4.0	---	107	---	12	---	.30	.03	---
TOTAL	38.66	87.1	154.2	123.8	147.0	1157.9	3662	1486	220.6	35.17	5.15	2.38
MEAN	1.25	2.90	4.97	3.99	5.07	37.4	122	47.9	7.35	1.13	.17	.079
MAX	4.9	4.6	5.8	4.0	12	120	496	101	33	4.7	.84	.14
MIN	.30	1.4	4.0	3.8	4.0	4.0	26	12	2.0	.26	.03	0
AC-FT	77	173	306	246	292	2300	7260	2950	437	70	10	4.7

CAL YR 1975 TOTAL 7896.21 MEAN 21.6 MAX 178 MIN .30 AC-FT 15660
WTR YR 1976 TOTAL 7119.96 MEAN 19.5 MAX 496 MIN 0 AC-FT 14120

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'21", long 110°50'05", in SE¼SE¼ sec.28, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on left bank 400 ft (122 m) downstream from Sulphur Creek Dam, 6.3 mi (10.1 km) upstream from mouth, and 10.5 mi (16.9 km) southeast of Evanston.

DRAINAGE AREA.--69.2 mi² (179.2 km²).

PERIOD OF RECORD.--April 1958 to current year.

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft (2,170 m), from topographic map.

REMARKS.--Records good. Flow regulated by Sulphur Creek Reservoir 400 ft (122 m) upstream, capacity, 7,100 acre-ft (8.75 hm³). Records prior to 1965 do not include flow over spillway of dam.

AVERAGE DISCHARGE.--11 years (water years 1966-76), 27.0 ft³/s (0.765 m³/s), 19,560 acre-ft/yr (24.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD (SINCE 1966).--Maximum discharge, 425 ft³/s (12.0 m³/s) May 10, 1974, gage height, 3.71 ft (1.131 m); no flow at times each year except 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 83 ft³/s (2.35 m³/s) Mar. 19, gage height, 2.05 ft (0.625 m); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	0	9.3	9.1	2.9	2.8	75	73	23	54	42	61
2	13	0	9.3	9.0	2.8	2.8	75	63	19	53	33	71
3	13	0	9.3	8.8	2.9	2.8	74	27	16	54	26	69
4	7.8	0	9.3	8.8	2.9	2.8	74	27	14	54	27	68
5	0	0	9.3	8.8	2.9	2.9	36	27	9.9	53	24	60
6	0	0	9.3	8.8	2.9	3.0	3.5	27	5.3	52	14	53
7	0	4.7	9.3	8.8	2.9	3.0	3.5	27	5.6	61	5.5	49
8	0	8.8	9.3	8.8	2.9	2.9	3.6	27	6.4	78	5.6	47
9	0	8.6	9.3	8.8	2.8	2.9	3.6	21	7.3	76	5.6	44
10	0	8.7	9.3	8.8	2.8	2.9	11	4.0	7.9	75	5.7	37
11	0	8.8	9.3	8.8	2.8	2.9	39	4.1	8.0	75	6.0	4.8
12	0	10	9.3	8.8	2.8	2.9	40	4.2	9.5	65	6.0	4.8
13	0	9.2	9.3	8.8	2.9	3.0	40	4.0	18	49	6.0	4.8
14	0	9.1	9.3	8.8	2.9	3.0	40	4.0	47	48	6.0	.01
15	0	9.1	9.3	8.8	2.9	3.0	41	4.1	73	48	5.8	0
16	0	9.1	9.3	7.0	2.9	3.0	42	4.0	58	39	5.7	0
17	0	9.1	9.3	3.3	2.8	3.0	42	4.0	47	39	5.7	0
18	0	9.1	9.3	3.0	2.8	3.0	42	4.0	42	39	5.8	0
19	0	9.1	9.3	3.0	2.8	35	42	3.9	36	40	6.0	0
20	0	9.1	9.1	3.0	2.8	82	64	3.8	29	39	11	0
21	0	9.1	9.1	3.0	2.7	82	80	4.1	21	42	17	0
22	0	9.1	9.1	3.0	2.7	81	80	5.1	16	47	17	0
23	0	9.3	9.1	2.9	2.7	80	78	17	15	46	16	0
24	0	9.3	9.1	2.9	2.8	80	77	32	14	46	16	0
25	0	9.3	9.1	2.9	2.8	80	77	40	14	46	22	0
26	0	9.3	9.1	2.9	2.8	79	76	41	16	48	37	0
27	0	9.3	9.1	2.9	2.8	79	76	39	12	49	36	0
28	0	9.3	9.1	2.8	2.8	78	74	34	20	49	35	0
29	0	9.3	9.1	2.9	2.8	78	75	31	54	50	33	0
30	0	9.3	9.1	2.9	---	76	74	28	58	48	33	0
31	0	---	9.1	2.9	---	76	---	26	---	42	33	---
TOTAL	45.8	215.1	285.9	183.8	82.0	1038.6	1558.2	660.3	711.9	1588	547.4	573.41
MEAN	1.48	7.17	9.22	5.93	2.83	33.5	51.9	21.3	23.7	51.2	17.7	19.1
MAX	13	10	9.3	9.1	2.9	82	80	73	73	78	42	71
MIN	0	0	9.1	2.8	2.7	2.8	3.5	3.8	5.3	39	5.5	0
AC-FT	91	427	567	365	163	2060	3090	1310	1410	3150	1090	1140

CAL YR 1975 TOTAL 8899.50 MEAN 24.4 MAX 200 MIN 0 AC-FT 17650
WTR YR 1976 TOTAL 7489.81 MEAN 20.5 MAX 82 MIN 0 AC-FT 14860

10017000 YELLOW CREEK NEAR EVANSTON, WY

LOCATION.--Lat 41°08'39", long 111°03'08", in NW¼NW¼NW¼ sec.28, T.5 N., R.8 E., Summit County, UT, Hydrologic Unit 16010101, on left bank 600 ft (183 m) downstream from Sage Creek, 1.5 mi (2.4 km) upstream from Coyote Creek, 1.8 mi (2.9 km) downstream from Barker Dam, and 9.8 mi (15.8 km) southwest of Evanston.

DRAINAGE AREA.--79.2 mi² (205.1 km²).

PERIOD OF RECORD.--October 1944 to September 1945, October 1949 to current year. Records for February 1943 to September 1944 at site 1.2 mi (1.9 km) downstream not equivalent, but would be equivalent by adding flow of Wright No. 2 and Cook Canals, in reports on Bear River Hydrometric Data, 1944 (Geological Survey open-file report).

GAGE.--Water-stage recorder. Altitude of gage is 6,920 ft (2,109 m), from river-profile map. Oct. 1, 1944, to Sept. 30, 1945, at site 500 ft (152 m) upstream, at different datums.

REMARKS.--Records good except those for winter months, which are fair. One small diversion for irrigation of hay meadows above station. Flow regulated by Barker Reservoir, capacity, 162 acre-ft (200,000 m³) since 1959.

AVERAGE DISCHARGE.--28 years (water years 1945, 1950-76), 10.9 ft³/s (0.309 m³/s), 7,900 acre-ft/yr (9.74 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 477 ft³/s (13.5 m³/s) Apr. 28, 1952, gage height, 7.04 ft (2.146 m); maximum gage height, 7.05 ft (2.149 m) Mar. 12, 1972 (backwater from ice); no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 100 ft³/s (2.83 m³/s) May 15, gage height, 5.63 ft (1.716 m); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	1.7	1.8	1.8	1.9	2.5	58	32	24	2.3	0	5.6
2	.12	1.6	2.4	1.7	2.0	2.6	58	35	22	2.4	0	7.1
3	.06	1.7	2.6	1.3	1.9	2.7	58	38	21	2.4	0	7.8
4	0	1.7	1.9	.33	1.9	2.8	58	40	20	3.0	0	3.0
5	.02	1.7	1.8	.21	1.7	2.9	58	42	14	2.9	0	.33
6	0	1.8	1.7	.33	1.5	3.0	58	44	11	2.8	0	0
7	.02	2.1	1.8	.37	1.2	3.1	57	46	11	2.7	0	0
8	1.1	2.7	1.7	.41	.47	3.2	57	53	11	3.4	0	0
9	1.7	2.0	1.7	1.1	.64	3.3	58	49	11	3.7	0	0
10	2.0	1.5	1.8	1.1	.81	3.4	55	43	11	3.9	0	0
11	2.2	1.4	1.9	1.2	.98	3.7	52	37	11	2.0	0	0
12	2.2	1.4	1.9	1.5	1.3	3.3	54	44	11	2.2	0	0
13	2.2	1.4	2.0	1.5	1.5	3.1	51	53	11	1.5	0	0
14	2.2	1.5	2.1	1.4	1.7	3.0	46	53	15	.94	.07	0
15	1.8	1.8	2.2	1.5	1.9	2.9	43	72	15	1.4	.26	0
16	1.7	2.0	2.3	1.7	1.8	3.2	40	87	14	1.1	.37	0
17	1.7	1.9	2.5	1.6	1.6	4.1	38	55	13	1.1	0	0
18	1.7	1.3	2.4	1.7	1.7	5.5	37	53	12	1.0	0	0
19	1.7	1.7	2.2	1.6	1.7	6.8	37	53	11	1.5	0	0
20	1.7	1.7	2.1	1.5	1.7	14	37	52	9.3	2.2	0	0
21	1.7	1.7	2.0	1.3	1.7	24	37	48	7.7	3.2	0	0
22	1.9	1.7	2.1	1.3	1.7	61	38	47	7.2	4.0	0	0
23	2.1	1.9	2.2	1.3	1.7	44	42	47	5.8	3.8	0	0
24	2.0	1.9	2.2	1.3	1.9	39	38	46	4.7	3.5	0	0
25	1.8	2.0	2.3	1.6	1.9	39	39	45	4.4	3.0	0	0
26	2.4	2.3	2.4	1.6	1.7	40	42	35	4.3	3.2	0	0
27	2.7	2.3	2.5	1.6	1.9	63	38	17	3.0	2.8	0	0
28	1.8	2.3	2.1	1.6	2.3	60	35	23	2.3	3.5	0	0
29	1.9	2.2	1.8	1.7	2.4	58	33	34	2.5	3.9	0	0
30	2.2	1.9	1.8	1.7	---	58	32	28	2.4	1.5	0	0
31	2.1	---	1.7	1.9	---	58	---	26	---	0	2.4	---
TOTAL	46.73	54.8	63.9	40.75	47.10	623.1	1384	1373	324.6	78.34	3.10	23.83
MEAN	1.51	1.83	2.06	1.31	1.62	20.1	46.1	44.3	10.8	2.53	.10	.79
MAX	2.7	2.7	2.6	1.9	2.4	63	58	87	24	4.0	2.4	7.8
MIN	0	1.3	1.7	.21	.47	2.5	32	17	2.4	0	0	0
AC-FT	93	109	127	81	93	1240	2750	2720	643	155	6.1	47

CAL YR 1975 TOTAL 4609.71 MEAN 12.6 MAX 97 MIN 0 AC-FT 9143
WTR YR 1976 TOTAL 4063.30 MEAN 11.1 MAX 87 MIN 0 AC-FT 8060

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 41°24'24", long 111°02'26", in SE¼ sec.36, T.17 N., R.121 W., Uinta County, Hydrologic Unit 16010101, on left bank at highway bridge, 6.5 mi (10.5 km) downstream from headgates, and 10 mi (16 km) northwest of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft (2,003 m), from river-profile map. Prior to Oct. 11, 1946, nonrecording gage, and Oct. 11, 1946, to Aug. 2, 1961, water-stage recorder, at site 20 ft (6 m) downstream at same datum.

REMARKS.--Records fair. Canal diverts water from Bear River in NW¼ sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, UT, and irrigation in Saleratus basin, UT.

AVERAGE DISCHARGE.--32 years (water years 1945-76), 20.0 ft³/s (0.57 m³/s), 14,490 acre-ft/yr (17.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 143 ft³/s (4.05 m³/s) June 24, 1970; no flow at times each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	6.6				0	2.0	60	51	21	31	3.3
2	19	5.3				0	2.0	63	48	22	34	6.0
3	19	4.2				0	2.0	65	46	25	33	12
4	17	2.8				0	2.0	69	44	23	30	10
5	14	.49				0	2.0	71	41	19	25	8.8
6	12	0				0	2.0	74	42	13	20	9.7
7	11	0				0	2.0	74	41	13	17	12
8	12	0				0	2.0	79	37	27	13	11
9	13	0				0	2.1	77	37	33	12	11
10	13	0				0	40	38	35	33	10	11
11	13	0				0	40	39	29	28	8.4	9.1
12	13	0				0	40	43	28	29	8.6	2.6
13	14	0				0	42	43	28	23	11	1.0
14	15	0				0	41	46	40	23	12	1.6
15	14	0				.50	41	50	41	22	12	1.4
16	14	0				.50	41	41	32	19	11	1.6
17	14	0				.50	39	41	25	18	11	1.6
18	14	0				.50	38	43	21	17	11	2.6
19	13	0				.50	39	43	19	19	12	4.5
20	13	0				1.0	40	45	19	19	11	3.8
21	12	0				1.0	41	52	18	17	9.1	3.8
22	12	0				1.0	40	53	19	17	9.4	3.8
23	12	0				1.0	42	49	22	14	11	4.7
24	12	0				1.0	43	48	24	12	12	6.6
25	11	0				1.0	44	44	19	9.1	10	7.6
26	12	0				1.0	46	39	14	9.6	7.4	7.6
27	14	0				1.0	44	50	11	8.8	11	7.6
28	13	0				1.0	43	53	6.8	8.6	12	8.1
29	12	0				1.0	44	72	7.6	8.4	10	7.8
30	14	0			---	1.0	60	72	19	8.4	6.9	7.6
31	14	---			---	1.0	---	76	---	11	6.2	---
TOTAL	425	19.39	0	0	0	14.50	906.1	1712	864.4	569.7	436.8	190.6
MEAN	13.7	.65	0	0	0	.47	30.2	55.2	28.8	18.4	14.1	6.35
MAX	20	6.6	0	0	0	1.0	60	79	51	33	34	12
MIN	11	0	0	0	0	0	2.0	38	6.8	8.4	6.2	1.0
AC-FT	843	38	0	0	0	29	1800	3400	1710	1130	866	378

CAL YR 1975 TOTAL 8013.46 MEAN 22.0 MAX 120 MIN 0 AC-FT 15890
WTR YR 1976 TOTAL 5138.49 MEAN 14.0 MAX 79 MIN 0 AC-FT 10190

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NW¼NW¼ sec.29, T.17 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, on right bank 9.3 mi (15.0 km) upstream from Woodruff Narrows Dam and 10 mi (16 km) southeast of Woodruff.

DRAINAGE AREA.--752 mi^2 (1,948 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft (1,967.5 m), from river-profile map.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 43,500 acres (176 km^2) above station.

AVERAGE DISCHARGE.--15 years, 254 ft^3/s (7.19 m^3/s), 183,800 acre-ft/yr (227 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft^3/s (94.6 m^3/s) June 13, 1965, gage height, 5.89 ft (1.795 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,320 ft^3/s (37.4 m^3/s) May 20, gage height, 4.37 ft (1.332 m); minimum, 4.2 ft^3/s (0.12 m^3/s) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	120	147	80	70	210	316	266	578	79	14	5.5
2	33	101	161	80	75	200	417	303	614	71	30	5.5
3	32	101	166	75	75	160	482	340	626	54	37	6.2
4	32	95	144	75	75	140	602	380	578	46	24	5.5
5	34	93	112	80	75	120	738	417	536	37	18	5.5
6	30	93	107	80	75	110	668	435	459	29	14	5.2
7	28	91	112	80	75	105	512	453	423	21	12	5.5
8	31	99	109	80	75	100	476	512	386	23	10	5.9
9	40	107	107	80	80	100	650	530	375	38	8.9	6.2
10	43	91	109	85	80	100	584	542	340	38	8.4	7.0
11	45	86	105	85	80	92	554	584	312	33	6.6	7.0
12	49	88	101	85	80	100	584	693	298	39	5.9	6.6
13	66	82	97	85	80	100	465	693	281	33	5.5	5.9
14	82	109	88	85	80	100	392	751	355	31	5.5	5.5
15	82	107	88	85	85	100	365	1010	360	26	5.5	5.2
16	86	107	88	85	85	100	335	1100	294	24	5.5	4.8
17	82	114	91	85	85	110	294	1090	277	22	5.5	4.5
18	81	109	88	85	85	160	254	1150	277	23	5.5	4.8
19	77	97	84	85	85	250	258	1210	214	26	5.9	4.8
20	72	178	84	85	85	300	262	1220	198	25	5.2	5.2
21	69	137	85	80	85	300	285	1100	150	21	5.2	5.2
22	69	101	85	80	85	250	298	1100	155	22	5.2	5.5
23	79	127	85	75	80	300	326	930	152	21	6.2	5.5
24	79	137	85	75	80	300	330	894	147	17	5.9	5.9
25	71	127	85	70	80	650	340	850	125	15	5.5	6.2
26	74	101	85	70	80	600	404	730	105	13	5.5	6.6
27	109	114	85	70	85	566	360	780	84	12	5.2	6.6
28	109	142	85	70	95	404	355	799	76	12	5.5	7.0
29	90	142	85	68	140	355	298	857	72	9.8	6.2	7.0
30	101	140	85	70	---	365	262	799	76	9.3	5.9	6.2
31	114	---	85	70	---	262	---	620	---	9.8	5.5	---
TOTAL	2021	3336	3123	2443	2395	7089	12466	23146	8883	879.9	294.7	174.0
MEAN	65.2	111	101	78.8	82.6	229	416	747	296	28.4	9.51	5.80
MAX	114	178	166	85	140	650	738	1220	626	79	37	7.0
MIN	28	82	84	68	70	92	254	266	72	9.3	5.2	4.5
AC-FT	4010	6620	6190	4850	4750	14060	24730	45910	17620	1750	585	345

CAL YR 1975 TOTAL 111599.0 MEAN 306 MAX 2030 MIN 18 AC-FT 221300
WTR YR 1976 TOTAL 66250.6 MEAN 181 MAX 1220 MIN 4.5 AC-FT 131400

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
FEB												
19...	1000	85	.5	--	230	17	76	10	14	.4	2.1	260
MAR												
22...	1030	250	1.0	--	230	17	55	23	18	.5	4.0	260
APR												
23...	1230	326	9.0	--	240	9	59	23	17	.5	2.8	270
MAY												
27...	1245	700	12.5	--	100	2	27	8.4	4.7	.2	.7	120
JUN												
25...	1115	125	13.0	1	180	16	44	17	9.4	.3	1.9	200
JUL												
23...	1130	21	19.5	--	260	6	59	29	23	.6	3.3	310
AUG												
20...	1215	5.2	18.0	--	270	16	51	35	36	1.0	4.2	310
SEP												
17...	1315	4.5	17.0	--	270	14	54	34	35	.9	4.4	300

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
FEB											
19...	0	213	21	15	.2	9.0	278	.38	63.8	.27	.11
MAR											
22...	0	213	37	16	.2	7.5	287	.39	194	.14	.16
APR											
23...	6	231	29	19	.2	7.7	294	.40	259	.07	.07
MAY											
27...	0	98	6.6	5.6	.1	4.6	116	.16	219	.09	.08
JUN											
25...	0	164	15	13	.2	6.9	208	.28	70.2	.05	.03
JUL											
23...	0	254	34	20	.3	7.0	326	.44	18.5	.08	.02
AUG											
20...	0	254	53	32	.4	9.2	376	.51	5.28	.36	.04
SEP											
17...	6	256	61	33	.6	8.3	385	.52	4.68	.36	.03

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in sec.32, T.18 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, in gate house on dam on Bear River, 5.6 mi (9.0 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi² (2,031 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder and mercury manometer. Datum of gage is 6,405 ft (1,952.2 m), from levels by Bureau of Reclamation.

REMARKS.--Reservoir formed by earth-fill, rock faced dam. Lower portion of spillway cut in natural rock. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft (34.5 hm³) below spillway crest, which includes 18,240 acre-ft (22.5 hm³) of Compact allocation for irrigation, 4,260 acre-ft (5.25 hm³) of irrigation holdover, 4,000 acre-ft (4.93 hm³) for winter release for fish propogation in Utah, and 1,500 acre-ft (1.85 hm³) of storage for fish propogation in Wyoming. Gage height of spillway is 35.3 ft (10.76 m). Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 33,080 acre-ft (40.8 hm³) May 11, 1974, June 10, 1975, gage height, 38.3 ft (11.67 m); minimum observed, 1,570 acre-ft (1.94 hm³) Sept. 21, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 31,370 acre-ft (38.7 hm³) May 19, 20, 21, 22, gage height, 37.3 ft (11.37 m); minimum observed, 1,570 acre-ft (1.94 hm³) Sept. 21.

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21030	22450	26320	27830	27970	28260	29000	29000	30080	12050	5840	4850
2	20700	22590	26490	27830	27970	28260	29000	29000	29930	10680	5840	4850
3	20360	22740	26660	27830	27970	28260	29000	29000	29930	9830	5840	4790
4	20060	22890	26840	27830	27970	28410	29000	29180	29930	8780	5840	4790
5	19840	23040	27020	27830	27970	28410	29000	29180	29930	7790	5840	4720
6	19720	23290	27200	27830	27970	28560	29000	29370	29740	7010	5840	4720
7	19720	23290	27550	27830	27970	28560	29000	29370	28860	6930	5770	4660
8	19720	23410	27690	27830	27970	28560	29000	29550	28260	6860	5770	4360
9	19720	23520	27830	27830	27970	28560	29000	29550	27830	6700	5710	4000
10	19720	23760	27970	27830	27970	28560	29000	29740	26840	6630	5710	3660
11	19840	23760	27970	27830	28120	28560	29000	29740	25650	6560	5640	3330
12	19840	23890	28120	27830	28120	28560	29000	29930	24860	6560	5570	3020
13	19960	23890	28120	27830	28120	28710	29000	30080	24560	6480	5570	2720
14	19960	24010	27970	27970	28120	28710	29000	30230	24140	6410	5500	2440
15	20060	24140	27970	27970	28120	28860	29000	30630	23760	6340	5500	2170
16	20180	24410	27970	27970	28120	28860	29000	31030	23410	6260	5440	1870
17	20270	24560	27970	27970	28120	29000	29000	31200	23160	6190	5440	1710
18	20360	24710	27970	27830	28120	29000	29000	31200	22450	6190	5370	1670
19	20510	24860	27970	27830	28120	29000	29000	31370	21880	6120	5370	1630
20	20700	24860	27970	27830	28120	29000	29000	31370	21320	6050	5300	1590
21	20890	25010	27970	27830	28260	29000	29000	31370	20510	6050	5240	1570
22	20890	25170	27970	27830	28260	29000	29000	31370	19960	6050	5170	1570
23	21030	25340	27970	27830	28260	29000	29000	31030	19360	6050	5170	1570
24	21030	25500	27970	27830	28260	29000	29000	30850	18640	6050	5110	1570
25	21180	25500	27970	27830	28260	29000	29000	30850	17890	5980	5110	1570
26	21320	25650	27970	27830	28260	29000	29000	30410	16920	5980	5040	1570
27	21600	25800	27970	27830	28260	29000	29000	30410	15780	5910	5040	1570
28	21740	25970	27970	27970	28260	29000	29000	30410	14700	5910	4980	1570
29	21880	26140	27970	27970	28260	29000	29000	30410	13470	5910	4980	1570
30	22020	26320	27970	27970	---	29000	29000	30410	12490	5840	4920	1570
31	22310	---	27830	27970	---	29000	---	30230	---	5840	4920	---
MAX	22310	26320	28120	27970	28260	29000	29000	31370	30080	12050	5840	4850
MIN	19720	22450	26320	27830	27970	28260	29000	29000	12490	5840	4920	1570
(†)	31.5	34.3	35.2	35.3	35.5	36.0	36.0	36.7	23.0	14.7	a13.3	a6.75
(‡)	+990	+4,010	+1,510	+140	+290	+470	0	+1,230	-17,740	-6,650	-920	-3,350

CAL YR 1975 MAX 33080 MIN 10600 ‡+11230
WTR YR 1976 MAX 31370 MIN 1570 ‡-19750

† Gage height, in feet, at 2400 of last day of month.
‡ Change in contents, in acre-feet.
a Estimated.

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ sec.32, T.18 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, on right bank 1,100 ft (340 m) downstream from Woodruff Narrows Dam, 1.6 mi (2.6 km) upstream from Salt Creek, 5.4 mi (8.7 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi² (2,031 km²).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft (1,950.403 m) above mean sea level (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft (53.3 m) upstream at same datum.

REMARKS.--Records excellent. Flow regulated by Woodruff Narrows Reservoir (see sta 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres (176 km²) above station.

AVERAGE DISCHARGE.--15 years, 249 ft³/s (7.05 m³/s), 180,400 acre-ft/yr (222 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,000 ft³/s (85.0 m³/s) June 14, 1965, gage height, 7.88 ft (2.402 m); no flow July 4, 5, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft³/s (33.1 m³/s) May 21, gage height, 6.21 ft (1.893 m); minimum, 3.3 ft³/s (0.09 m³/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	34	35	75	67	185	274	278	622	551	21	20
2	175	34	35	73	68	183	322	271	581	534	21	20
3	174	34	35	69	68	156	388	290	593	519	21	20
4	173	34	35	69	68	135	477	308	571	503	21	20
5	173	34	35	72	71	118	595	337	550	485	21	20
6	107	34	35	73	69	107	665	370	505	398	20	20
7	37	34	36	74	66	100	614	391	737	58	20	41
8	37	34	41	75	66	94	537	419	661	59	20	154
9	37	35	56	75	71	91	543	458	622	59	20	150
10	36	35	72	77	75	91	600	479	769	59	20	146
11	36	35	85	78	75	99	575	500	760	57	20	141
12	36	35	99	80	76	100	566	553	632	58	20	137
13	36	35	108	79	76	96	551	612	488	59	20	133
14	35	35	107	77	76	94	486	644	487	59	20	130
15	35	35	99	77	78	90	434	760	484	58	20	126
16	36	36	95	76	79	86	389	924	481	58	20	76
17	36	36	90	78	80	98	355	968	479	42	20	9.3
18	36	36	90	79	79	144	315	1000	476	27	20	8.3
19	35	36	86	80	78	238	288	1060	474	27	20	8.3
20	35	36	81	79	78	269	277	1130	470	27	20	8.3
21	35	36	78	76	77	268	280	1140	466	27	20	6.5
22	35	37	76	72	76	266	284	1130	464	27	20	7.0
23	34	37	77	69	75	282	288	1060	460	27	20	6.8
24	34	36	79	68	74	294	303	948	456	27	20	7.0
25	34	36	79	66	74	353	317	882	451	27	20	7.0
26	34	36	81	65	74	383	365	799	501	24	20	7.0
27	34	36	83	63	76	390	359	723	607	20	20	6.5
28	34	36	81	63	88	354	350	708	594	20	20	5.4
29	33	36	79	63	133	313	338	749	580	21	20	3.9
30	33	35	80	65	---	280	304	787	566	21	20	4.7
31	33	---	78	66	---	264	---	721	---	21	20	---
TOTAL	1853	1058	2226	2251	2211	6021	12439	21399	16587	3959	625	1450.0
MEAN	59.8	35.3	71.8	72.6	76.2	194	415	690	553	128	20.2	48.3
MAX	175	37	108	80	133	390	665	1140	769	551	21	154
MIN	33	34	35	63	66	86	274	271	451	20	20	3.9
AC-FT	3680	2100	4420	4460	4390	11940	24670	42440	32900	7850	1240	2880

CAL YR 1975 TOTAL 106470.0 MEAN 292 MAX 1960 MIN 23 AC-FT 211200
WTR YR 1976 TOTAL 72079.0 MEAN 197 MAX 1140 MIN 3.9 AC-FT 143000

10026500 BEAR RIVER NEAR RANDOLPH, UT

LOCATION.--Lat 41°48'02", long 111°04'20", in SE¼NE¼ sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi (6.0 km) upstream from Twin Creek, 5.0 mi (8.0 km) upstream from Utah-Wyoming State line, and 11 mi (18 km) northeast of Randolph.

DRAINAGE AREA.--1,616 mi^2 (4,185 km^2).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,889.8 m), from river-profile map. Prior to Aug. 17, 1971, 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 94,500 acres (382 km^2) above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--33 years, 207 ft^3/s (5.86 m^3/s), 149,700 acre-ft/yr (185 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft^3/s (75.3 m^3/s) May 8, 1952; maximum gage height, 8.99 ft (2.740 m) June 17, 1965, site and datum then in use; minimum discharge, 1.6 ft^3/s (0.05 m^3/s) Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,210 ft^3/s (34.3 m^3/s) Mar. 26, gage height, 6.88 ft (2.097 m); minimum, 13 ft^3/s (0.37 m^3/s) Aug. 31, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	90	126	102	86	240	600	421	236	184	85	18
2	129	90	131	109	82	402	600	411	251	182	82	21
3	129	91	126	104	84	523	700	395	248	174	87	23
4	131	91	122	103	92	526	800	391	230	165	83	21
5	136	91	117	107	76	450	900	398	195	166	80	20
6	154	91	114	107	60	370	1000	410	174	188	75	20
7	158	91	103	105	82	300	1100	429	161	187	73	23
8	134	91	94	99	93	200	892	450	159	168	70	23
9	102	90	86	104	92	184	850	467	159	158	67	23
10	90	90	80	114	96	180	754	487	157	148	66	38
11	86	93	67	112	93	192	745	510	151	138	65	58
12	86	98	59	105	89	217	744	515	214	111	64	64
13	91	103	102	110	91	217	698	530	283	95	62	67
14	89	90	124	105	92	233	678	562	334	84	59	70
15	92	87	147	109	90	243	647	590	347	72	55	74
16	89	76	124	109	92	247	598	587	337	68	56	78
17	87	73	117	115	89	264	555	621	356	68	57	77
18	85	79	104	118	90	354	522	681	335	60	58	69
19	78	79	102	110	90	634	481	688	321	47	57	53
20	78	67	108	110	90	728	442	678	295	41	55	45
21	81	91	114	98	90	685	423	517	261	38	46	42
22	87	96	121	102	90	731	413	536	242	39	39	52
23	89	100	121	98	90	875	411	560	227	36	27	64
24	90	103	124	97	90	936	402	553	205	31	34	48
25	87	94	122	100	90	1060	406	455	185	29	52	47
26	90	105	119	92	90	1200	423	390	153	54	40	45
27	96	102	118	89	90	1030	448	318	145	81	38	44
28	98	124	116	89	90	832	464	237	126	82	44	40
29	99	128	109	92	150	760	451	196	109	58	35	38
30	96	126	122	90	---	700	439	224	140	55	23	38
31	91	---	116	98	---	650	---	259	---	68	14	---
TOTAL	3156	2820	3455	3202	2619	16163	18586	14466	6736	3075	1748	1343
MEAN	102	94.0	111	103	90.3	521	620	467	225	99.2	56.4	44.8
MAX	158	128	147	118	150	1200	1100	688	356	188	87	78
MIN	78	67	59	89	60	180	402	196	109	29	14	18
AC-FT	6260	5590	6850	6350	5190	32060	36870	28690	13360	6100	3470	2660

CAL YR 1975 TOTAL 96929 MEAN 266 MAX 1030 MIN 44 AC-FT 192300
WTR YR 1976 TOTAL 77369 MEAN 211 MAX 1200 MIN 14 AC-FT 153500

10027000 TWIN CREEK AT SAGE, WY

LOCATION.--Lat 41°48'36", long 110°58'12", in NE¼SW¼SE¼ sec.7, T.21 N., R.119 W., Lincoln County, Hydrologic Unit 16010101, on right bank 0.5 mi (0.8 km) downstream from Bulldog Hollow, 0.5 mi (0.8 km) southwest of Sage, 0.8 mi (1.3 km) southeast of junction of U.S. Highway 30 and State Highway 89, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--246 mi² (637 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1943 to September 1962, July to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 6,320 ft (1,926 m), from topographic map. Prior to Oct. 1, 1945, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum. Oct. 1, 1945, to Sept. 30, 1962, water-stage recorder at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records fair. Diversions for irrigation of about 1,100 acres (4.45 km²) above station.

AVERAGE DISCHARGE.--19 years (water years 1944-62), 18.5 ft³/s (0.524 m³/s), 13,390 acre-ft/yr (16.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 649 ft³/s (18.4 m³/s) Mar. 18, 1947, gage height, 6.08 ft (1.853 m), site and datum then in use; minimum daily, 0.6 ft³/s (0.02 m³/s) Mar. 18, 1953, result of freezeup.

EXTREMES FOR PERIOD JULY TO SEPTEMBER.--Maximum discharge, 24 ft³/s (0.68 m³/s) July 1, gage height, 2.02 ft (0.616 m); minimum daily, 6.4 ft³/s (0.18 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										20	12	8.1
2										20	12	8.1
3										18	12	7.8
4										17	9.7	7.0
5										16	9.3	7.3
6										17	8.4	7.6
7										15	7.8	6.7
8										15	8.1	7.0
9										15	8.4	6.4
10										15	8.7	6.7
11										14	8.7	7.3
12										14	8.7	8.1
13										14	8.7	8.4
14										13	7.8	8.4
15										13	6.7	8.1
16										13	7.0	6.7
17										12	7.3	7.6
18										12	7.6	8.1
19										12	9.7	8.1
20										11	9.3	8.1
21										11	8.4	8.1
22										11	8.7	7.8
23										10	11	7.8
24										10	11	7.8
25										10	9.0	7.6
26										9.3	8.4	7.8
27										10	9.0	7.8
28										10	9.0	7.8
29										10	8.1	7.0
30										12	7.8	7.3
31										12	8.4	---
TOTAL										411.3	276.7	228.4
MEAN										13.3	8.93	7.61
MAX										20	12	8.4
MIN										9.3	6.7	6.4
AC-FT										816	549	453

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT												
22...	1100	7.8	890	8.1	5.0	9	9.6	--	60	380	150	86
NOV												
20...	1100	15	870	8.1	1.0	6	10.1	--	42	410	160	97
DEC												
20...	1200	12	940	8.0	.5	15	11.8	1.2	78	480	200	110
JAN												
22...	1230	6.2	1080	8.0	.0	20	11.6	1.7	100	430	170	98
FEB												
19...	1130	E5.0	980	8.0	.0	15	11.6	2.2	44	490	200	110
MAR												
22...	1130	E25	700	7.9	.5	30	11.2	--	B6	300	110	68
APR												
23...	1430	102	700	8.1	8.0	240	9.4	7.2	74	280	80	59
MAY												
27...	1415	60	740	8.3	16.0	120	9.0	6.5	B14	350	83	76
JUN												
22...	1015	25	750	--	14.5	20	--	--	--	--	--	--
25...	1230	23	800	8.2	14.0	60	8.0	1.4	B36	380	110	80
JUL												
08...	1825	14	830	--	22.0	5	--	--	--	--	--	--
23...	1230	11	880	8.1	18.0	20	8.1	2.1	40	360	130	73
28...	1400	9.3	360	--	19.0	9	--	--	--	--	--	--
AUG												
20...	1315	8.7	910	8.1	16.5	30	8.9	3.8	102	380	160	84
30...	1700	7.8	825	--	18.5	3	--	--	--	--	--	--
SEP												
17...	1415	6.7	900	8.1	15.0	10	9.0	3.6	66	380	170	81

B Results based on colony count outside the acceptable range (non-ideal colony count).
E Estimate.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
OCT											
22...	39	43	1.0	3.6	269	0	221	190	20	.4	8.8
NOV											
20...	41	50	1.1	3.6	304	0	249	230	34	.4	9.9
DEC											
20...	49	62	1.2	4.4	338	0	277	280	37	.4	11
JAN											
22...	46	61	1.3	4.1	319	0	262	290	13	.3	11
FEB											
19...	52	64	1.3	4.6	352	0	289	270	39	.3	14
MAR											
22...	31	43	1.1	4.8	233	0	191	180	27	.3	8.8
APR											
23...	32	40	1.0	4.5	243	0	199	130	10	.3	4.7
MAY											
27...	39	30	.9	3.4	326	0	267	190	80	.3	11
JUN											
22...	--	--	--	--	--	--	--	--	--	--	--
25...	43	43	1.0	3.2	322	0	264	150	23	.4	12
JUL											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	44	47	1.1	3.5	282	0	231	190	32	.4	8.8
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
20...	41	48	1.1	4.3	264	0	217	220	32	.4	8.8
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
17...	43	48	1.1	4.1	261	0	214	210	34	.5	8.1

BEAR RIVER BASIN

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
OCT 22...	533	.72	11.2	.02	.00	.17	.17	.19	.03	100	30
NOV 20...	616	.84	24.9	.07	.00	.33	.33	.40	.02	130	50
DEC 20...	721	.98	23.4	.07	.00	.22	.22	.29	.01	120	0
JAN 22...	683	.93	11.4	.22	.01	.55	.56	.78	.04	130	0
FEB 19...	728	.99	9.83	.25	.02	.54	.56	.81	.14	90	10
MAR 22...	448	.61	30.2	.20	.04	.76	.80	1.0	.12	50	40
APR 23...	414	.56	114	.12	.05	1.9	1.9	2.0	.54	90	20
MAY 27...	501	.68	81.4	.48	.01	.92	.93	1.4	.13	80	30
JUN 22...	--	--	--	--	--	--	--	--	--	--	--
25...	513	.70	31.9	.08	.05	.35	.40	.48	.04	0	30
JUL 08...	--	--	--	--	--	--	--	--	--	--	--
23...	538	.73	16.0	.09	.04	.66	.70	.79	.05	110	20
28...	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	567	.77	13.3	.03	.05	.67	.72	.75	.05	120	30
30...	--	--	--	--	--	--	--	--	--	--	--
SEP 17...	558	.76	10.1	.09	.00	.66	.66	.75	.04	110	20

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	SUS-PENDED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	SUS-PENDED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)
OCT 22...	1100	520	520	0	3	1	2	10	10	0	0	0
JAN 22...	1230	690	690	0	0	0	0	0	0	0	<10	<9
APR 23...	1430	8000	8000	10	8	5	3	0	0	0	<10	<9
JUL 23...	1230	390	380	10	4	1	3	0	0	0	<10	<9

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)
OCT 22...	0	0	0	10	0	0	0	440	<100	<98	2	50
JAN 22...	1	0	0	0	<10	<10	0	650	<100	<96	4	60
APR 23...	1	0	0	0	10	2	8	6800	<100	<100	0	60
JUL 23...	1	0	0	0	<10	<7	3	340	<100	<100	0	50

DATE	SUS-PENDED LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	SUS-PENDED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)
OCT 22...	10	40	30	0	30	.0	.0	.0	7	1	6
JAN 22...	0	60	50	30	20	.0	.0	.0	8	1	7
APR 23...	20	40	250	230	20	.0	.0	.0	5	0	7
JUL 23...	0	50	40	20	20	.0	.0	.0	3	0	4

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NICKEL (NI) (UG/L)	SUS-PENDED NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
22...	0	0	3	2	0	2	1.5	10	5	5	2.5
JAN											
22...	<50	<46	4	2	0	2	1.0	30	30	0	3.4
APR											
23...	<50	<46	4	1	0	1	2.2	60	60	0	12
JUL											
23...	<50	<50	0	2	0	2	.0	40	20	20	8.7

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JUN						
22...	1015	14.5	25	92	6.2	--
JUL						
08...	1025	22.0	14	42	1.6	--
28...	1400	19.0	9.3	66	1.7	92
AUG						
30...	1700	18.5	7.8	70	1.5	89

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
JUL								
28...	1400	9.3	19.0	36	13	24	43	49

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JUL							
28...	51	53	55	60	68	82	100

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¼SE¼ sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft (243 m) downstream from Pixley Dam, 11 mi (18 km) south of Cokeville, and 17.5 mi (28.2 km) downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi² (5,263 km²).

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft (1,885.2 m), from river-profile map. Oct. 31, 1941, to Nov. 30, 1943, at site 200 ft (61 m) downstream at different datum.

REMARKS.-- Records good. Natural flow of stream affected by diversions for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft³/s (65.1 m³/s) Mar. 25, 1956; minimum daily recorded, 0.3 ft³/s (0.008 m³/s) Aug. 21, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 583 ft³/s (16.5 m³/s) May 12, gage height, 5.52 ft (1.682 m); minimum daily, 20 ft³/s (0.57 m³/s) Sept. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	535	221	126	98	29
2							---	514	215	99	114	29
3							---	493	126	59	156	30
4							---	473	136	86	116	22
5							---	473	128	128	103	21
6							---	487	128	123	103	20
7							---	497	128	123	96	20
8							---	516	124	135	91	22
9							---	533	120	141	87	27
10							---	548	116	144	87	28
11							---	570	96	144	86	40
12							---	583	91	179	85	55
13							---	479	107	202	83	61
14							---	479	141	230	81	65
15							---	529	185	180	78	69
16							---	550	276	141	76	78
17							---	557	310	120	76	82
18							---	568	320	128	76	77
19							---	579	353	129	78	60
20							---	575	366	120	76	92
21							---	527	344	86	71	79
22							---	493	312	62	64	59
23							---	504	293	67	59	67
24							---	510	218	65	47	68
25							---	471	204	59	53	61
26							---	417	188	42	68	59
27							---	306	174	56	58	59
28							---	279	159	116	55	57
29							575	245	147	87	59	55
30							557	215	138	78	48	53
31							---	213	---	78	38	---
TOTAL							---	14718	5864	3533	2466	1544
MEAN							---	475	195	114	79.5	51.5
MAX							---	583	366	230	156	92
MIN							---	213	91	42	38	20
AC-FT							---	29190	11630	7010	4890	3060

THE SEASON AC-FT 55780

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'16", long 110°52'14", in NW¼ sec.33, T.27 N., R.118 W., Lincoln County, Hdyrologic Unit 16010102, on left bank 4.5 mi (7.2 km) upstream from Howland Creek, 6 mi (10 km) downstream from Hobble Creek, and 12 mi (19 km) northeast of Border.

DRAINAGE AREA.--165 mi^2 (427 km^2).

PERIOD OF RECORD.--May 1942 to current year.

REVISED RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,680 ft (2,036 m), from topographic map. Prior to Oct. 16, 1945, at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. One diversion for irrigation of about 200 acres (809,000 m^2) above station.

AVERAGE DISCHARGE.--34 years, 199 ft^3/s (5.64 m^3/s), 144,200 acre-ft/yr (178 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,610 ft^3/s (45.6 m^3/s) June 18, 1971, gage height, 5.61 ft (1.710 m); minimum, 21 ft^3/s (0.59 m^3/s) Mar. 29, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,040 ft^3/s (29.5 m^3/s) May 15, gage height, 4.58 ft (1.396 m); minimum, 25 ft^3/s (0.71 m^3/s) Mar. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	95	77	60	60	50	61	288	848	496	243	129
2	111	95	73	60	55	50	62	361	874	485	226	127
3	110	95	74	60	55	50	64	437	896	458	221	125
4	109	93	78	60	50	50	71	528	896	437	211	123
5	108	92	76	60	50	50	83	554	879	427	204	122
6	108	92	74	60	49	50	98	588	870	414	200	122
7	108	93	73	60	50	50	97	636	867	399	195	126
8	114	92	73	60	50	50	107	672	851	388	191	120
9	110	84	73	60	50	50	120	752	832	374	188	118
10	110	87	69	60	50	50	119	793	811	362	186	117
11	108	89	68	60	50	50	135	832	794	350	183	116
12	114	89	71	60	50	54	162	799	726	341	182	121
13	117	89	68	60	50	52	172	777	698	328	177	116
14	113	86	62	60	50	52	180	859	626	316	172	113
15	107	85	64	65	52	50	203	980	577	305	171	111
16	108	85	62	65	53	47	168	871	560	297	171	109
17	106	83	60	64	51	51	171	848	543	292	166	109
18	106	82	60	68	50	52	172	902	566	294	166	111
19	104	82	61	60	50	54	175	946	529	282	166	108
20	103	74	60	60	52	51	182	970	519	275	156	108
21	102	88	60	60	50	53	192	946	548	266	153	107
22	104	84	60	60	50	52	208	967	502	260	151	108
23	102	80	60	60	50	56	227	947	578	253	162	109
24	101	79	60	60	50	55	242	926	551	247	154	107
25	94	80	60	60	50	57	276	883	523	244	148	107
26	106	82	60	60	51	55	251	822	505	239	146	106
27	105	92	60	60	50	57	224	809	488	234	147	106
28	99	83	60	69	49	55	216	848	480	220	140	104
29	95	80	60	75	50	55	215	902	488	225	137	103
30	100	71	60	67	---	58	239	899	482	224	135	102
31	98	---	60	60	---	57	---	862	---	230	133	---
TOTAL	3293	2581	2036	1913	1477	1623	4912	24204	19995	9978	5381	3410
MEAN	106	86.0	65.7	61.7	50.9	52.4	164	781	667	322	174	114
MAX	117	95	78	75	60	58	276	980	896	496	243	129
MIN	94	71	60	60	49	47	61	288	480	224	133	102
AC-FT	6530	5120	4040	3790	2930	3220	9740	48010	39660	19790	10670	6760

CAL YR 1975 TOTAL 80671 MEAN 221 MAX 1040 MIN 44 AC-FT 160000
WTR YR 1976 TOTAL 80803 MEAN 221 MAX 980 MIN 47 AC-FT 160300

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in SE¼NE¼ sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi (1.8 km) upstream from Wyman Dam, 2.8 mi (4.5 km) northwest of Cokeville, and 3.8 mi (6.1 km) downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi^2 (6,338 km^2).

PERIOD OF RECORD.--April 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,140 ft (1,871 m), from river-profile map.

REMARKS.--Records good except those for winter periods, which are fair. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--22 years, 447 ft^3/s (12.7 m^3/s), 324,000 acre-ft/yr (399 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,780 ft^3/s (107 m^3/s) Mar. 26, 1956, gage height, 7.54 ft (2.298 m); minimum, 63 ft^3/s (1.78 m^3/s) Nov. 2, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,790 ft^3/s (79.0 m^3/s) Apr. 5, gage height, 7.05 ft (2.149 m); minimum, 154 ft^3/s (4.36 m^3/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	278	205	250	220	257	833	962	1080	625	256	169
2	263	274	227	250	210	270	906	1010	1060	608	267	174
3	261	276	229	250	200	280	1020	1060	1030	552	285	197
4	258	276	266	250	201	300	1220	1120	941	539	314	187
5	255	277	248	244	200	400	2370	1150	948	561	263	177
6	260	281	251	240	200	500	2650	1170	919	617	251	172
7	283	287	255	240	200	500	2440	1230	919	606	238	178
8	305	291	262	234	200	450	2460	1300	915	608	228	177
9	293	272	270	229	209	400	2520	1360	900	613	225	178
10	252	270	281	230	210	355	2340	1430	873	596	219	184
11	241	245	268	240	210	313	2070	1490	855	574	223	182
12	236	233	272	249	210	290	2010	1530	841	552	217	204
13	256	268	277	250	210	280	1800	1510	847	609	213	220
14	248	274	303	248	210	309	1660	1410	818	585	207	222
15	237	274	297	240	220	300	1550	1550	777	591	201	218
16	233	281	255	245	210	290	1410	1630	841	501	201	217
17	234	279	260	253	210	286	1260	1610	914	475	197	223
18	229	241	270	246	213	290	1140	1620	987	495	201	226
19	224	262	284	240	205	318	1070	1670	991	483	202	225
20	214	213	280	240	200	459	1030	1710	999	461	197	207
21	216	248	270	240	200	559	997	1690	1010	374	188	231
22	219	240	260	240	200	621	997	1630	966	341	176	213
23	227	242	250	240	200	575	1010	1620	947	303	184	203
24	228	241	246	242	210	673	991	1610	865	292	192	233
25	227	240	255	240	220	672	1010	1540	775	292	167	222
26	239	230	253	240	220	718	1020	1430	733	277	176	213
27	272	225	266	240	220	752	1000	1260	689	242	203	210
28	267	222	250	204	228	776	1000	1170	657	265	195	206
29	264	220	250	229	239	770	986	1170	626	311	194	201
30	267	210	250	238	---	808	960	1150	630	246	191	196
31	287	---	250	230	---	812	---	1100	---	253	181	---
TOTAL	7766	7670	8060	7451	6085	14591	43730	42892	26353	14447	6652	6065
MEAN	251	256	260	240	210	471	1458	1384	878	466	215	202
MAX	305	291	303	253	239	812	2650	1710	1080	625	314	233
MIN	214	210	205	204	200	257	833	962	626	242	167	169
AC-FT	15400	15210	15990	14780	12070	28940	86740	85080	52270	28660	13190	12030

CAL YR 1975 TOTAL 198104 MEAN 543 MAX 2330 MIN 149 AC-FT 392900
WTR YR 1976 TOTAL 191762 MEAN 524 MAX 2650 MIN 167 AC-FT 380400

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼NE¼ sec.15, T.14 S., R.46 E., Bear Lake County, ID, Hydrologic Unit 16010102, on left bank 0.2 mi (0.3 km) west of Idaho-Wyoming State line, 0.5 mi (0.8 km) west of Border, and 2.1 mi (3.4 km) upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi^2 (6,439 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft (1,844.537 m) above mean sea level, unadjusted.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by regulation by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--39 years, 432 ft^3/s (12.2 m^3/s), 313,100 acre-ft/yr (386 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft^3/s (104 m^3/s) May 11, 1952, gage height, 8.89 ft (2.710 m); minimum daily, 30 ft^3/s (0.85 m^3/s) Aug. 18-22, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,620 ft^3/s (103 m^3/s) Apr. 6, gage height, 8.72 ft (2.658 m); minimum, 188 ft^3/s (5.32 m^3/s) Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	292	220	270	240	270	900	976	1040	514	266	201
2	285	290	240	270	230	290	1000	1020	1020	493	268	195
3	283	290	240	270	220	310	1200	1070	996	464	277	214
4	283	288	280	270	217	340	1400	1130	900	433	310	210
5	281	285	260	270	220	440	2400	1190	876	438	272	199
6	285	281	260	260	220	520	3310	1220	856	461	261	195
7	299	288	270	250	220	530	2510	1260	844	467	253	197
8	312	296	280	227	220	500	2450	1320	844	447	251	197
9	301	285	290	240	220	450	2540	1380	809	449	246	195
10	290	277	300	250	220	400	2500	1440	790	438	240	197
11	283	266	290	250	220	340	2340	1500	772	424	242	197
12	281	250	290	260	220	292	2220	1560	761	419	236	208
13	285	270	290	260	220	300	2020	1560	769	447	232	220
14	283	280	310	260	220	320	1900	1480	790	416	228	220
15	274	280	300	260	230	310	1780	1500	740	461	226	216
16	266	285	280	260	230	310	1590	1640	754	405	224	216
17	266	281	270	270	220	310	1360	1650	832	397	222	218
18	263	255	290	270	220	330	1180	1630	908	414	222	222
19	257	253	300	260	220	360	1100	1660	940	433	224	228
20	255	230	300	250	210	500	1040	1690	912	424	220	216
21	253	260	290	250	210	600	1000	1680	916	367	214	242
22	253	260	280	250	210	700	1000	1640	880	340	205	228
23	259	260	270	250	210	650	1010	1610	856	308	207	214
24	259	260	260	250	220	700	1000	1590	809	294	214	234
25	259	260	260	250	230	750	1020	1530	718	288	208	234
26	263	250	270	250	230	750	1050	1440	676	281	207	224
27	285	250	280	250	230	800	1020	1290	629	255	222	220
28	285	240	280	240	240	850	1010	1160	580	261	222	216
29	281	240	270	250	250	850	992	1130	539	299	218	214
30	277	230	270	260	---	850	976	1110	539	266	216	212
31	299	---	270	250	---	900	---	1070	---	261	208	---
TOTAL	8597	8032	8560	7927	6467	15822	46818	43126	24295	12064	7261	6399
MEAN	277	268	276	256	223	510	1561	1391	810	389	234	213
MAX	312	296	310	270	250	900	3310	1690	1040	514	310	242
MIN	253	230	220	227	210	270	900	976	539	255	205	195
AC-FT	17050	15930	16980	15720	12830	31380	92860	85540	48190	23930	14400	12690

CAL YR 1975 TOTAL 205163 MEAN 562 MAX 2360 MIN 160 AC-FT 406900
WTR YR 1976 TOTAL 195368 MEAN 534 MAX 3310 MIN 195 AC-FT 387500

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1965 to September 1976 (discontinued).
WATER TEMPERATURES: October 1965 to September 1976 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,580 micromhos Dec. 27, 1975; minimum daily, 312 micromhos Apr. 3, 1969.
WATER TEMPERATURES: Maximum, 23.0°C Aug. 7, 1970, Aug. 9, 1972, July 7, 1973, July 24, 25, 1974; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,580 micromhos Dec. 27; minimum daily, 376 micromhos June 26.
WATER TEMPERATURES: Maximum, 22.5°C July 9-13; minimum, 0.0°C Jan. 22, Mar. 9-12.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT									
22...	1345	255	560	8.0	1	9.8	B11	240	27
NOV									
20...	1330	A230	510	1.0	5	10.6	B2	260	47
DEC									
20...	1400	A300	590	.5	3	12.0	B2	280	50
JAN									
22...	1430	A250	500	.0	2	11.4	B6	260	47
FEB									
19...	1330	A220	510	.5	9	10.9	45	230	33
MAR									
22...	1400	A700	460	.5	320	10.6	B180	170	14
APR									
23...	1630	1030	640	9.0	120	9.0	B22	250	37
MAY									
27...	1600	1250	450	14.5	35	9.0	B22	210	21
JUN									
25...	1500	718	640	15.0	1	8.4	27	300	46
JUL									
23...	1530	303	620	21.0	1	8.1	45	270	40
AUG									
20...	1600	222	630	18.5	6	8.8	44	270	40
SEP									
17...	1645	218	600	16.0	--	8.5	B28	250	61

A Daily mean discharge.
B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT									
22...	58	24	23	.6	1.9	260	0	213	59
NOV									
20...	68	22	24	.6	1.9	260	0	213	68
DEC									
20...	73	25	24	.6	1.9	280	0	230	63
JAN									
22...	68	22	20	.5	2.1	260	0	213	58
FEB									
19...	61	20	19	.5	2.6	240	0	197	53
MAR									
22...	43	16	25	.8	3.5	190	0	156	44
APR									
23...	60	24	30	.8	3.7	260	0	213	67
MAY									
27...	53	18	16	.5	2.3	230	0	189	35
JUN									
25...	67	32	35	.9	3.3	310	0	254	60
JUL									
23...	63	27	30	.8	2.1	280	0	230	58
AUG									
20...	65	25	29	.8	2.3	280	0	230	70
SEP									
17...	60	24	24	.7	1.9	230	0	189	58

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT 22...	22	.2	6.2	320	.44	220	.09	.02
NOV 20...	25	.3	6.1	345	.47	214	.02	.02
DEC 20...	26	.3	7.6	361	.49	292	.07	.01
JAN 22...	19	.3	7.8	327	.44	221	.14	.01
FEB 19...	18	.2	7.3	298	.41	177	.07	.03
MAR 22...	23	.2	5.7	255	.35	482	.09	.80
APR 23...	28	.2	8.8	351	.48	976	.11	.20
MAY 27...	14	.2	7.2	258	.35	871	.23	.16
JUN 25...	32	.3	10	394	.54	764	.05	.03
JUL 23...	27	.3	6.8	354	.48	290	.00	.02
AUG 20...	24	.3	8.6	361	.49	216	.14	.05
SEP 17...	20	.3	5.8	332	.45	195	5.9	.05

DATE	TIME	TOTAL PCB (UG/L)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)
SEP 17...	1645	.0	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
SEP 17...	.00	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

10039500 BEAR RIVER AT BORDER, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	481	562	501	573	542	498	453	562	460	591	668	541
2	491	569	577	563	553	493	446	531	413	582	778	509
3	487	569	570	510	556	437	425	519	412	578	778	509
4	488	544	550	540	503	424	395	509	412	579	767	514
5	491	569	550	557	518	482	377	501	443	565	541	509
6	508	590	550	524	551	489	382	458	443	585	682	530
7	498	570	518	527	555	489	382	463	449	650	682	504
8	491	585	539	527	548	483	389	459	447	640	682	521
9	491	604	551	524	546	520	396	459	456	636	761	520
10	489	604	531	530	543	530	413	441	460	642	668	520
11	489	619	594	530	544	529	443	450	510	642	708	561
12	508	609	586	529	546	529	470	432	511	670	721	547
13	509	546	587	530	550	517	488	432	507	675	672	551
14	535	584	579	529	519	518	523	410	512	637	672	545
15	540	551	593	500	511	511	546	420	506	665	678	520
16	561	573	594	479	519	437	541	421	632	630	663	530
17	556	553	592	558	519	518	563	423	620	647	648	509
18	567	553	593	542	506	439	605	421	605	620	661	530
19	540	542	601	543	519	438	600	411	633	642	587	528
20	540	608	592	547	524	443	606	410	682	622	564	538
21	520	608	592	541	530	446	605	404	684	596	575	551
22	553	552	561	622	530	447	583	409	680	617	606	532
23	546	574	579	625	530	449	561	409	642	596	587	525
24	552	585	583	610	530	423	561	445	690	630	558	531
25	547	583	1230	605	522	448	555	447	635	622	564	534
26	553	580	1400	578	526	423	555	428	376	621	643	529
27	547	585	1580	578	513	439	571	430	591	587	656	538
28	558	579	528	717	508	441	572	425	589	640	611	520
29	568	579	524	540	499	437	562	442	589	640	605	514
30	574	595	518	547	---	444	557	446	565	649	576	531
31	557	---	634	542	---	456	---	449	---	640	576	---
MONTH	527	577	648	554	530	470	504	447	538	624	650	528
YEAR	MAX	1580	MIN	376	MEAN	550						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	5.0	3.0	2.0	1.5	0.5	1.5	12.5	15.0	17.5	20.0	18.0
2	13.0	5.0	3.5	2.0	1.0	0.5	1.0	13.0	15.5	18.0	19.0	18.0
3	13.5	6.0	3.0	2.0	1.0	0.5	1.5	13.0	15.5	20.0	19.0	18.0
4	13.0	6.5	3.5	3.0	1.0	0.5	2.0	13.0	16.0	20.0	19.0	18.0
5	13.5	6.0	3.0	3.0	1.5	0.5	2.0	12.5	16.5	20.0	19.0	18.0
6	13.0	5.5	3.0	2.5	1.5	0.5	2.5	13.0	16.5	20.0	19.0	17.0
7	10.0	6.0	3.0	2.5	1.5	0.5	4.5	13.0	16.5	20.5	19.0	16.0
8	8.5	5.5	3.5	2.0	1.5	0.5	5.5	13.0	14.0	21.5	19.0	16.5
9	10.0	3.5	3.5	2.0	2.0	0.0	5.5	13.0	16.5	22.5	15.0	16.5
10	9.5	4.0	3.5	2.0	1.5	0.0	7.5	13.5	16.5	22.5	18.0	16.5
11	10.0	3.5	3.5	1.5	1.5	0.0	7.5	13.5	15.5	22.5	18.0	16.0
12	8.0	2.5	3.5	1.0	1.5	0.0	9.0	13.5	16.0	22.5	15.0	16.0
13	8.0	3.5	3.5	0.5	1.5	0.5	9.0	13.5	15.5	22.5	18.5	15.0
14	7.5	3.0	3.5	1.0	1.5	0.5	9.0	13.5	15.5	21.0	18.5	15.0
15	7.5	4.0	4.0	1.5	1.0	1.0	8.0	14.0	12.5	21.0	18.5	16.0
16	9.0	4.5	4.5	1.5	1.0	1.0	8.0	14.5	13.0	21.5	18.5	15.5
17	9.0	4.0	4.5	1.5	1.0	1.0	7.0	15.0	13.5	20.0	18.5	15.0
18	9.0	3.0	4.0	1.5	0.5	1.0	8.5	15.0	16.0	17.0	18.5	15.0
19	9.0	3.0	4.0	1.5	1.0	1.0	8.5	15.0	17.5	20.0	18.5	15.0
20	9.0	2.0	0.5	1.5	0.5	1.0	8.5	15.0	17.5	20.0	19.0	14.5
21	9.0	2.0	2.0	1.5	0.5	1.5	10.0	14.5	17.5	20.5	19.0	14.0
22	7.5	2.0	3.0	2.0	0.5	1.0	10.5	15.0	17.5	20.5	18.5	14.0
23	7.5	1.5	3.5	2.5	0.5	1.5	10.5	15.0	17.5	20.5	18.5	12.5
24	7.5	1.5	3.5	2.0	0.5	1.5	10.5	14.0	17.0	20.5	19.0	12.5
25	7.0	1.5	3.0	1.5	0.5	1.5	8.5	14.5	17.0	20.5	19.0	12.5
26	5.5	1.5	2.0	1.5	0.5	1.5	8.5	14.5	18.0	20.5	16.5	13.0
27	5.0	1.5	2.0	1.5	0.5	1.0	10.0	15.5	19.5	21.0	16.0	12.5
28	4.5	1.5	2.5	2.0	1.0	1.0	10.0	15.5	19.5	20.5	17.5	12.5
29	4.0	1.5	2.0	2.0	0.5	1.0	12.0	15.0	19.5	20.0	18.0	12.0
30	3.5	2.0	2.0	1.5	---	1.0	12.0	15.0	19.5	20.0	18.0	12.5
31	4.0	---	2.0	1.5	---	1.0	---	15.0	---	20.0	18.0	---
MONTH	8.5	3.5	3.0	2.0	1.0	1.0	7.5	14.0	16.5	20.5	18.0	15.0
YEAR	MAX	22.5	MIN	0.0	MEAN	9.0						

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼NW¼ sec.19, T.28 N., R.119 W., Lincoln County, WY, Hydrologic Unit 16010102, on right bank 1.3 mi (2.1 km) upstream from State line, 1.5 mi (2.4 km) downstream from Giraffe Creek, and 3.5 mi (5.6 km) northeast of Geneva, ID.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft (1,914 m), from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--27 years, 55.5 ft³/s (1.57 m³/s), 40,210 acre-ft/yr (49.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft³/s (29.5 m³/s) May 14, 1971, gage height, 3.84 ft (1.170 m); minimum, 2.6 ft³/s (0.074 m³/s) Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 24	2200	248	7.02	2.14	0.652
May 15	0500	*655	18.6	3.15	.960

Minimum discharge, 4.4 ft³/s (0.13 m³/s) Mar. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	20	16	18	16	12	13	237	168	62	28	23
2	23	19	19	18	16	13	13	291	160	60	28	23
3	23	19	20	18	16	14	14	345	153	59	28	23
4	22	18	20	18	16	15	18	405	144	57	28	23
5	22	18	19	18	16	16	22	421	137	55	28	23
6	22	18	17	18	16	16	25	417	131	54	27	22
7	23	18	17	18	16	16	29	438	125	53	27	22
8	26	18	17	18	16	16	35	485	120	51	27	22
9	24	16	17	18	17	16	45	517	115	50	27	22
10	23	16	17	18	13	17	60	532	111	49	27	22
11	22	18	17	18	14	17	66	566	116	48	27	21
12	24	20	17	18	14	17	77	511	112	47	27	21
13	29	24	16	18	14	15	80	485	129	45	27	21
14	27	20	17	18	14	13	98	508	114	44	27	21
15	24	16	18	19	13	14	106	567	104	43	27	21
16	23	15	18	18	11	14	87	477	102	42	27	20
17	22	15	18	18	14	12	78	440	98	42	26	20
18	21	15	18	18	13	12	87	421	110	50	26	20
19	21	15	18	18	12	12	94	391	92	43	26	20
20	20	16	18	18	11	13	99	356	86	43	26	21
21	20	16	19	18	14	12	123	326	82	41	26	20
22	21	16	19	18	17	12	152	326	80	39	25	20
23	20	16	19	18	21	12	164	299	79	38	25	21
24	19	16	19	18	22	14	181	275	78	37	25	20
25	19	16	19	18	17	12	192	260	74	36	25	20
26	26	16	19	18	14	13	163	234	72	35	25	20
27	26	16	18	18	12	13	145	218	69	34	24	20
28	21	17	18	18	12	13	146	207	66	33	24	19
29	25	16	18	18	12	13	159	200	65	31	24	19
30	22	16	19	16	---	13	188	187	63	30	24	19
31	21	---	18	16	---	13	---	177	---	32	24	---
TOTAL	704	515	559	555	429	430	2759	11519	3155	1383	812	629
MEAN	22.7	17.2	18.0	17.9	14.8	13.9	92.0	372	105	44.6	26.2	21.0
MAX	29	24	20	19	22	17	192	567	168	62	28	23
MIN	19	15	16	16	11	12	13	177	63	30	24	19
AC-FT	1400	1020	1110	1100	851	853	5470	22850	6260	2740	1610	1250

CAL YR 1975 TOTAL 24173 MEAN 66.2 MAX 573 MIN 12 AC-FT 47950
WTR YR 1976 TOTAL 23449 MEAN 64.1 MAX 567 MIN 11 AC-FT 46510

SNAKE RIVER MAIN STEM

13010500 JACKSON LAKE NEAR MORAN, WY

LOCATION.--Lat 43°51'33", long 110°35'23", in SE¼SW¼ sec.18, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, near left end of spillway over dam on Snake River, 4.3 mi (6.9 km) west of Moran, and at mile 1,000.2 (1,609.3 km).

DRAINAGE AREA.--807 mi² (2,090 km²).

PERIOD OF RECORD.--July 1908 to current year (1908-10 fragmentary). Prior to October 1968, published as "at Moran".

REVISED RECORDS.--WRD ID 1974: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level (Bureau of Reclamation datum). Datum of Geological Survey, unadjusted, is 2.08 ft (0.634 m) lower. Prior to June 1, 1941, at site 300 ft (91 m) upstream at same datum.

REMARKS.--Reservoir was formed by log crib dam built in the outlet of the natural lake in 1906. Usable capacity was 300,000 acre-ft (370 hm³). This dam washed out in July 1910 and was replaced by an earth dam, forming a reservoir with a usable capacity of 380,000 acre-ft (469 hm³). The earth dam was raised in 1916, increasing the usable capacity to 790,000 acre-ft (974 hm³). In 1917, by dredging the outlet, the capacity was further increased to 847,000 acre-ft (1,040 hm³) between elevations 6,730 ft (2,051 m), top of baffles to sluices, and 6,769 ft (2,063 m), top of spillway gates. Reservoir is used to store water for irrigation in Snake River valley in Idaho. Figures given herein represent usable contents.

COOPERATION.--Reservoir elevations and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 859,530 acre-ft (1,060 hm³) July 11, 1965, elevation, 6,769.49 ft (2,063.341 m); no usable contents for several days during period August to October 1919.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 847,200 acre-ft (1,040 hm³) July 17, elevation, 6,769.01 ft (2,063.199 m); minimum, 442,400 acre-ft (545 hm³) May 11, elevation, 6,752.20 ft (2,058.071 m).

Capacity table (elevation, in feet, and contents, in acre-ft)

6,750	392,900
6,760	624,400
6,770	872,600

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	577000	591500	605200	617900	627000	634000	638300	492200	547800	765000	796500	617700
2	577000	591700	606700	617900	627000	635400	638100	484600	558100	772400	793500	611900
3	577000	592200	607400	617900	626800	635400	637100	478000	569400	779200	789000	605500
4	577000	592400	607400	617900	627200	635400	636400	470600	580800	785700	785500	600000
5	577000	592600	608600	618400	627700	634900	635700	465100	591000	791200	781200	593400
6	577000	593100	609800	620300	627500	634900	634700	459900	605200	797000	776700	587400
7	577000	593600	611500	620500	627500	634500	633000	454400	621700	802800	771900	583400
8	577500	593800	611700	621200	627500	634500	631100	450100	638100	809200	767000	577500
9	577500	594300	612400	622700	627700	634500	629200	447400	654000	815200	762000	571800
10	577700	594800	612600	623900	627700	634700	626800	445600	668000	820800	756500	566600
11	578600	596700	613400	624100	628000	634700	623900	442400	680000	826400	750500	562100
12	579100	597200	614100	625600	627700	634900	621200	445300	689000	831700	744300	560700
13	580300	597200	615000	627000	627700	634700	617700	444900	693800	837300	738100	560300
14	581700	597200	615500	627000	628000	635400	614600	444900	699500	840900	731400	559800
15	582000	597200	615500	627200	628000	635700	610700	447400	702400	844400	725000	559300
16	582700	597600	616500	627500	628400	635700	606900	450600	711200	847000	718400	559100
17	582900	598100	616500	627500	629600	635700	601200	453000	715400	847200	711700	559100
18	583400	598800	616000	627700	630400	635700	596200	457400	717900	846000	705100	558800
19	583600	599000	615800	628000	631300	635900	590700	464200	720300	844200	699200	561200
20	583900	599000	616000	628000	631600	635900	584300	472000	723000	841600	692600	561900
21	583900	599000	616000	628000	632000	636100	576800	479600	727500	838300	686300	562400
22	585000	598600	616000	628000	631800	636100	566800	486200	733200	835000	679700	562400
23	586200	599500	616000	627700	631800	636400	557700	491300	739400	831700	673400	562600
24	586200	600500	616000	627700	631600	636100	548000	496400	744100	828100	667500	563100
25	586700	601400	616200	627700	631300	638300	538400	501700	747800	824600	661000	563800
26	588400	601400	616500	627700	631100	638300	531200	508600	748800	820500	654900	563600
27	589600	603100	617200	627700	631600	638300	523500	511200	750500	817000	648200	563300
28	589800	603800	617200	627700	631600	638500	515600	515600	752300	813200	641900	563600
29	589800	604000	617200	627500	633200	638500	507700	519300	754200	808600	635700	563600
30	590300	604300	617200	627200	---	638500	500100	527500	757700	804600	629400	563600
31	591200	---	617900	627200	---	638300	---	538000	---	800000	623600	---
MAX	591200	604300	617900	628000	633200	638500	638300	538000	757700	847200	796500	617700
MIN	577000	591500	605200	617900	626800	634000	500100	442400	547800	765000	623600	558800
(†)	6,758.61	6,759.16	6,759.73	6,760.12	6,760.37	6,760.58	6,754.72	6,756.35	6,765.46	6,767.15	6,759.97	6,757.44
(‡)	+14,200	+13,100	+13,600	+9,300	+6,000	+5,100	-138,200	+37,900	+219,700	+42,300	-176,400	-60,000

CAL YR 1975 MAX 850000 MIN 468100 ‡+18600
WTR YR 1976 MAX 847200 MIN 442400 ‡-13400

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

13011000 SNAKE RIVER NEAR MORAN, WY

LOCATION.--Lat 43°51'31", long 110°35'09", in SW¼SE¼ sec.18, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 1,000 ft (305 m) downstream from Jackson Lake Dam, 4.1 mi (6.6 km) west of Moran, and at mile 1,000.1 (1,609.2 km).

DRAINAGE AREA.--807 mi² (2,090 km²). Mean altitude, 8,040 ft (2,450 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "South Fork Snake River at Moran" prior to October 1910 and as "Snake River at Moran" October 1910 to September 1968.

REVISED RECORDS.--WSP 1217: 1944(m). WSP 1347: 1906-10. WRD ID 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,727.84 ft (2,050.646 m) above mean sea level, unadjusted. Prior to June 13, 1917, nonrecording gage, and June 14, 1917, to May 20, 1940, water-stage recorder, at site 1.5 mi (2.4 km) downstream at different datums.

REMARKS.--Records excellent. Flow regulated by Jackson Lake (see sta 13010500).

COOPERATION.--Once-daily gage readings for current reporting purposes furnished by Bureau of Reclamation.

AVERAGE DISCHARGE.--73 years, 1,449 ft³/s (41.04 m³/s), 1,050,000 acre-ft/yr (1,290 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft³/s (428 m³/s) June 12, 1918, gage height, 10.41 ft (3.173 m), site and datum then in use; minimum, 0.30 ft³/s (0.01 m³/s) Oct. 26, 27, 28, 1969, gage height, 0.89 ft (0.271 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood during early June 1894 was considererably higher than that of June 12, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,110 ft³/s (173 m³/s) Apr. 21, gage height, 7.89 ft (2.405 m); minimum, 111 ft³/s (3.14 m³/s) Oct. 16, gage height, 1.72 ft (0.524 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	338	308	313	453	456	471	501	4990	4340	1310	3520	3720
2	285	308	312	453	452	474	750	4970	4370	1020	3500	3790
3	283	306	311	453	454	476	807	4940	4400	1000	3500	3690
4	281	305	316	445	456	476	807	4920	4290	1000	3510	3670
5	281	335	316	452	453	476	942	4900	3740	1010	3540	3650
6	279	409	316	453	453	476	1200	4880	2070	969	3520	3640
7	280	408	316	453	456	477	1400	4320	2130	637	3510	3620
8	280	405	314	453	457	480	1720	4280	2180	399	3500	3610
9	278	405	311	448	457	477	2020	4280	2640	394	3670	3410
10	277	409	311	446	457	470	2150	4250	2710	394	3670	2070
11	277	345	311	449	457	470	2150	4250	2710	394	4040	2020
12	278	312	311	452	457	475	2430	4230	2740	395	4300	1200
13	280	312	311	453	457	473	2020	4230	2750	394	4340	859
14	279	311	312	452	458	473	2790	4220	2750	395	4380	634
15	281	311	313	453	462	472	2410	4240	2750	588	4370	480
16	238	309	374	453	462	466	3290	4230	2740	1590	4360	408
17	275	307	450	453	462	465	3610	4250	3350	2580	4340	389
18	305	307	458	453	463	462	3800	4260	3690	3130	4380	391
19	307	308	458	448	467	459	3670	4270	3640	3470	4380	384
20	308	307	454	448	467	460	4030	4280	3630	3510	4370	382
21	309	308	454	448	467	457	5040	4290	3700	3490	4340	377
22	363	307	458	449	467	459	6050	4620	3430	3490	4320	388
23	415	307	456	456	470	457	6000	4190	2900	3510	4300	393
24	412	307	457	452	471	457	5950	4800	2680	3510	4370	392
25	411	307	457	453	471	453	5650	4620	2660	3500	4150	391
26	411	307	453	453	469	453	5130	4630	2660	3520	3980	391
27	414	307	451	453	470	455	5100	4640	2670	3530	3970	385
28	415	307	456	448	470	456	5070	4670	2670	3510	3950	428
29	331	308	457	449	471	456	5030	4250	2640	3520	3940	402
30	275	312	455	449	---	456	5020	4280	2600	3540	3920	403
31	308	---	453	454	---	457	---	4320	---	3530	3810	---
TOTAL	9750	9804	11923	13984	13389	14400	99037	139860	91610	63162	124140	47674
MEAN	314	326	384	451	461	465	3301	4511	3053	2037	4004	1589
MAX	415	409	468	456	471	480	6050	4990	4400	3540	4380	3720
MIN	238	305	311	445	452	453	501	4220	2070	394	3500	377
AC-FT	19340	19450	23650	27750	26560	28560	196400	277400	181700	125300	246200	94560

CAL YR 1975 TOTAL 568435 MEAN 1557 MAX 5380 MIN 238 AC-FT 1127000
WTR YR 1976 TOTAL 638749 MEAN 1745 MAX 6050 MIN 238 AC-FT 1267000

13011000 SNAKE RIVER NEAR MORAN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	AIR TEMPER-ATURE (DEG C)
NOV					
06...	1300	367	145	7.5	--
13...	1145	313	--	4.5	-5.5
DEC					
23...	1255	450	114	1.5	-5.5
APR					
20...	1035	4910	202	1.0	7.0
JUN					
22...	1645	3190	145	10.0	9.5
JUL					
20...	1500	3400	132	15.5	22.0

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY

LOCATION.--Lat 43°50'14", long 110°26'21", in SE¼NE¼ sec.29, T.45 N., R.113 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on right bank underneath bridge on U.S. Highway 26, 287, about 2 mi (3 km) upstream from Lava Creek, 3.5 mi (5.6 km) east of Moran, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--323 mi² (837 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1965 to current year. July to November 1906, July 1917 to September 1918, and September 1944 to September 1960 at sites about 4 mi (6 km) downstream.

REVISED RECORDS.--WRD ID 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,772.78 ft (2,064.343 m) above mean sea level (U.S. Bureau of Public Roads bench mark).

REMARKS.--Records good except those for winter period, which are fair. No regulation or significant diversions above station.

AVERAGE DISCHARGE.--11 years (water years 1966-76), 601 ft³/s (17.02 m³/s), 435,400 acre-ft/yr (537 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,020 ft³/s (170 m³/s) June 19, 1974, gage height, 7.91 ft (2.411 m); minimum daily, 82 ft³/s (2.32 m³/s) Jan. 28-31, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,100 ft³/s (87.8 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 10	0500	3,690	104	6.53	1.990
July 2	0500	*3,840	109	6.42	1.957

Minimum daily discharge, 108 ft³/s (3.06 m³/s) Mar. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	220	165	145	130	130	110	279	2200	3260	880	362
2	249	228	175	140	130	120	115	320	2430	3450	880	356
3	248	229	185	140	128	110	115	386	2670	2820	858	342
4	248	221	180	145	125	108	120	459	2840	2940	821	332
5	245	217	180	145	120	110	125	442	2970	3050	772	328
6	243	226	185	150	122	115	135	467	3100	3210	718	328
7	244	235	190	150	122	115	145	479	3330	3120	696	325
8	265	224	185	150	122	115	160	645	3360	3270	664	325
9	246	216	180	150	125	115	180	824	3260	3290	619	322
10	265	205	175	150	128	115	220	917	3380	3310	595	315
11	257	197	170	145	125	115	250	1090	3190	3150	582	312
12	265	185	160	140	125	115	270	937	2640	2610	562	319
13	287	178	155	140	125	110	280	924	2120	2790	539	320
14	272	180	145	140	125	110	293	1190	1760	2320	534	306
15	262	180	145	145	125	110	289	1360	1550	2090	522	301
16	268	185	145	150	125	110	260	1160	1580	1970	522	295
17	258	185	145	155	125	110	251	1300	1500	1920	499	292
18	268	180	140	150	125	110	239	1680	1530	1720	466	315
19	260	180	135	140	125	110	235	1810	1490	1840	464	315
20	257	175	135	135	120	110	230	1800	1670	1640	464	302
21	258	170	140	135	115	110	234	1980	2360	1520	458	290
22	270	170	140	135	118	115	251	1950	2590	1440	438	292
23	252	170	143	135	120	115	252	1830	2540	1410	437	314
24	223	170	145	140	120	115	243	1780	2090	1320	437	290
25	228	170	150	140	120	115	256	1740	1860	1370	430	285
26	246	165	150	140	125	115	261	1580	1730	1240	418	282
27	241	160	150	140	130	115	242	1750	1670	1200	418	272
28	236	165	145	135	130	110	228	2130	1820	1130	393	268
29	226	165	150	135	130	110	232	2070	2110	1030	380	265
30	232	165	150	135	---	110	248	2250	2560	977	367	261
31	239	---	150	130	---	110	---	2300	---	846	366	---
TOTAL	7807	5716	4898	4405	3605	3503	6479	39840	69780	67303	17199	9231
MEAN	251	190	157	142	124	113	215	1285	2326	2171	554	307
MAX	287	235	190	155	130	130	293	2300	3380	3450	880	362
MIN	223	160	135	130	115	108	110	279	1490	846	366	261
CFSM	.78	.59	.49	.44	.38	.35	.67	3.98	7.20	6.72	1.72	.95
IN.	.90	.66	.56	.51	.42	.40	.75	4.59	8.04	7.75	1.98	1.06
AC-FT	15490	11340	9700	8740	7150	6950	12850	79020	138400	133500	34110	18310

CAL YR 1975 TOTAL 225583 MEAN 618 MAX 5000 MIN 110 CFSM 1.91 IN 25.98 AC-FT 447400
WTR YR 1976 TOTAL 239756 MEAN 655 MAX 3450 MIN 108 CFSM 2.03 IN 27.61 AC-FT 475600

13011900 BUFFALO CREEK ABOVE LAVA CREEK, NEAR MORAN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)
NOV					
06...	1100	285	220	.5	--
DEC					
23...	0955	144	106	.0	-13.0
FEB					
04...	0900	137	83	.0	-14.0
APR					
28...	0845	222	243	1.5	-3.0
JUN					
27...	1320	1530	130	7.0	--
JUL					
24...	1445	--	100	14.0	--
28...	0915	1150	80	10.0	16.0
AUG					
22...	0945	--	160	11.0	--

13018300 CACHE CREEK NEAR JACKSON, WY
(Hydrologic bench-mark station)

LOCATION.--Lat 43°27'08", long 110°42'12", in SW¼SW¼SE¼ sec.1, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, on right bank 0.7 mi (1.1 km) upstream from Salt Lick Draw, 2.4 mi (3.9 km) southeast of Jackson, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA (REVISED).--10.6 mi^2 (27.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft (2,057 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--14 years, 14.3 ft^3/s (0.405 m^3/s), 10,360 acre-ft/yr (12.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft^3/s (6.37 m^3/s) June 24, 1971, gage height, 3.90 ft (1.189 m); maximum gage height, 3.97 ft (1.210 m) June 7, 1972; minimum daily discharge, 2.7 ft (0.076 m^3/s) Jan. 5, 1971, Mar. 5, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 52 ft^3/s (1.47 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 3	2100	*93	2.63	3.33	1.015

Minimum daily discharge, 2.7 ft^3/s (0.076 m^3/s) Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	6.4	5.2	5.2	3.9	3.2	3.0	6.7	68	36	20	9.6
2	7.2	6.4	5.2	5.0	3.9	3.0	3.0	8.2	75	36	18	9.2
3	7.2	6.4	5.3	5.2	3.9	2.9	3.0	9.6	82	34	18	9.2
4	7.2	6.1	5.0	5.2	3.9	2.8	3.2	11	79	33	17	9.6
5	7.2	6.4	5.0	5.3	3.8	2.7	3.8	11	72	32	16	8.9
6	7.2	6.1	5.5	5.0	3.6	2.8	4.1	12	71	31	16	9.6
7	7.2	6.4	5.3	5.0	3.4	3.0	3.9	13	68	30	15	9.6
8	7.8	6.1	5.3	5.0	3.3	3.2	4.1	17	64	30	15	9.6
9	7.5	5.8	5.3	5.0	3.5	3.4	4.3	20	61	29	14	10
10	7.5	5.8	5.0	4.7	3.8	3.5	4.1	23	60	28	14	9.6
11	7.5	5.8	5.0	4.7	3.8	3.5	5.0	27	57	28	13	10
12	7.5	5.6	5.0	4.7	3.9	3.4	6.1	24	50	27	13	10
13	7.8	5.4	5.0	4.7	3.9	3.4	6.1	26	49	26	13	10
14	7.8	5.8	4.8	4.7	3.8	3.4	5.5	32	42	25	13	9.6
15	7.5	6.0	5.0	4.7	3.8	3.2	5.8	35	39	24	13	9.2
16	7.5	6.2	4.8	4.7	3.8	3.0	5.5	35	40	24	13	9.2
17	7.2	6.1	4.5	4.5	3.6	3.2	5.3	38	42	23	12	9.2
18	7.2	5.8	4.3	4.5	3.6	3.2	5.0	45	45	24	13	9.6
19	7.2	5.6	4.5	4.0	3.6	3.2	5.0	49	42	23	12	9.2
20	6.9	5.4	4.5	3.9	3.4	3.0	4.7	52	44	22	12	8.9
21	6.9	5.4	4.5	3.7	3.2	3.0	5.0	56	50	21	11	8.6
22	6.9	5.4	4.5	3.6	3.0	3.0	5.3	56	48	20	11	9.6
23	6.9	5.6	4.5	3.5	3.0	2.8	5.3	58	44	20	13	8.9
24	6.8	5.8	4.8	3.7	3.1	2.8	5.3	61	41	19	12	8.6
25	6.8	5.8	5.0	4.0	3.2	3.0	6.1	62	38	19	11	8.2
26	7.2	5.4	5.2	4.0	3.2	2.8	6.4	60	35	19	11	7.8
27	6.9	5.5	5.2	4.0	3.2	3.0	5.8	62	33	18	11	7.8
28	6.7	5.5	5.4	4.1	3.2	2.8	5.5	67	32	18	11	7.8
29	6.6	5.5	5.4	4.1	3.2	3.0	5.8	72	32	18	10	7.8
30	6.7	5.2	5.4	4.1	---	3.0	6.1	74	34	18	10	7.5
31	6.7	---	5.4	3.9	---	3.0	---	68	---	18	9.6	---
TOTAL	222.7	174.7	154.8	138.4	102.5	95.2	147.1	1190.5	1537	773	410.6	272.4
MEAN	7.18	5.82	4.99	4.46	3.53	3.07	4.90	38.4	51.2	24.9	13.2	9.08
MAX	7.8	6.4	5.5	5.3	3.9	3.5	6.4	74	82	36	20	10
MIN	6.6	5.2	4.3	3.5	3.0	2.7	3.0	6.7	32	18	9.6	7.5
AC-FT	442	347	307	275	203	189	292	2360	3050	1530	814	540

CAL YR 1975 TOTAL 4609.4 MEAN 12.6 MAX 57 MIN 3.2 AC-FT 9140
WTR YR 1976 TOTAL 5218.9 MEAN 14.3 MAX 82 MIN 2.7 AC-FT 10350

13018300 CACHE CREEK NEAR JACKSON, WY--Continued
(Hydrologic bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT 08...	1530	7.4	300	8.2	2.5	10.7	13	4	77	180	6
NOV 03...	1530	6.4	280	8.3	2.5	11.1	5	8	7	170	0
DEC 09...	1400	5.3	300	8.3	1.5	10.4	62	85	6	150	0
JAN 08...	1420	5.0	360	8.1	.5	12.0	38	<1	9	180	5
FEB 03...	1440	3.9	310	8.2	.5	10.4	4	<1	1	180	2
MAR 15...	1530	3.2	300	8.0	.5	11.0	<1	<1	<1	170	0
APR 14...	1450	5.5	300	8.0	2.5	10.1	15	11	2	180	0
MAY 04...	1500	11	260	8.1	3.0	10.8	94	4	<1	180	0
JUN 03...	1640	79	250	8.0	6.0	12.0	13	10	73	160	0
JUL 06...	1800	30	280	8.0	11.0	11.4	34	21	21	160	2
26...	1615	18	290	8.1	11.5	10.4	33	17	<1	170	8
SEP 08...	1530	10	290	8.2	6.5	9.8	22	15	--	170	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT 08...	47	14	1.8	.1	.6	206	--	169	5.0	.5	.1
NOV 03...	45	14	2.3	.1	.6	210	--	172	3.7	.9	.1
DEC 09...	40	12	3.0	.1	2.2	208	--	171	3.9	.7	.2
JAN 08...	47	14	2.6	.1	.7	207	--	170	5.5	.6	.1
FEB 03...	48	15	2.5	.1	.8	219	--	180	11	.9	.1
MAR 15...	45	15	2.5	.1	.7	216	--	177	4.0	.5	.1
APR 14...	47	15	3.8	.1	.7	228	--	187	6.2	1.4	.1
MAY 04...	47	14	4.2	.1	1.0	224	0	184	5.4	1.2	.1
JUN 03...	44	11	1.8	.1	.6	197	0	162	2.9	.8	.1
JUL 06...	43	13	1.5	.1	.6	194	0	159	7.5	.8	.1
26...	46	13	1.3	.0	.6	195	0	160	5.7	.6	.1
SEP 08...	45	14	1.6	.1	.6	207	--	170	6.2	4.5	.1

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	CYANIDE (CN) (MG/L)
OCT 08...	4.3	381	175	.24	3.50	--	--	.02	.02	--
NOV 03...	4.4	173	175	.24	3.02	--	--	.02	.01	--
DEC 09...	4.6	172	169	.23	2.42	--	--	.07	.02	--
JAN 08...	4.3	173	177	.24	2.39	.24	.00	.24	.01	--
FEB 03...	4.6	206	191	.26	2.01	--	--	.00	.00	.00
MAR 15...	4.7	176	179	.24	1.55	.07	--	.07	.01	--
APR 14...	4.7	198	191	.26	2.84	--	--	.02	.02	--
MAY 04...	7.9	174	191	.26	5.67	--	--	.10	.03	--
JUN 03...	3.9	164	162	.22	34.6	--	--	.00	.02	.00
JUL 06...	3.6	161	166	.23	13.4	--	--	.00	.03	--
26...	3.9	162	167	.23	8.21	--	--	.02	.01	--
SEP 08...	4.5	182	179	.24	4.83	--	--	.02	.01	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
FEB 03...	1440	0	0	<10	0	<10	80
JUN 03...	1640	4	100	100	0	10	1900

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB 03...	<100	30	.0	0	<10	0
JUN 03...	<100	80	.0	0	<10	20

DATE	TIME	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)
OCT 08...	1530	.0	0	.00	.00	.0	.0	0	.00	.0	.00	.0

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)
OCT 08...	.00	.0	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT 08...	.00	.0	.00	.00	.00	.00	0	0	.00	.00	.00	.00

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
OCT 08...	1530	2.5	7.4	2	.04	--	--	--	--	--
NOV 03...	1530	2.5	6.4	2	.03	--	--	--	--	--
DEC 09...	1400	1.5	5.2	7	.10	--	--	--	--	--
JAN 08...	1420	.5	5.1	2	.03	--	--	--	--	--
FEB 03...	1440	.5	3.9	6	.06	--	--	--	--	--
MAR 15...	1530	.5	3.6	2	.02	--	--	--	--	--
APR 14...	1450	2.5	5.3	16	.23	--	--	--	--	--
MAY 04...	1500	3.0	11	22	.65	--	--	--	--	--
JUN 03...	1640	6.0	80	140	30	26	48	88	97	100
JUL 06...	1000	11.0	30	35	2.8	--	--	--	--	--
26...	1615	11.5	18	12	.59	--	--	--	--	--
SEP 08...	1530	6.5	9.8	13	.34	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	BED MAT. FALL DIAM. % FINER THAN .004 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
JUN 03...	1640	80	6.0	1	8	12	15	17

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BEV MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
JUN 03...	18	18	20	25	39	73	100

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY

LOCATION.--Lat 43°22'20", long 110°44'17", in NE¼SE¼ sec.3, T.39 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 20 ft (6.1 m) upstream from county road bridge, about 1 mi (1.6 km) downstream from Flat Creek, 4.8 mi (7.7 km) upstream from Hoback River, and 7.0 mi (11.3 km) south of Jackson.

DRAINAGE AREA.--2,342 mi² (6,066 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1975 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (1,814 m), from topographic map.

REMARKS.--Records fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,800 ft³/s (447 m³/s) June 4, gage height, 7.80 ft (2.377 m); minimum daily, 1,280 ft³/s (36.2 m³/s) Feb. 6-7, Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	1420	1450	1400	1430	1550	6730	13900	9810	7850	6180
2		---	1450	1320	1320	1370	1670	6870	14100	10100	7980	6130
3		---	1450	1320	1390	1360	1990	7090	14600	9670	7880	6080
4		---	1520	1350	1350	1330	2060	7480	15000	9210	7810	6010
5		---	1520	1480	1300	1280	2170	7610	14900	9290	7590	5880
6		---	1630	1490	1280	1380	2590	7640	14100	9260	7330	5910
7		---	1710	1560	1280	1370	3020	7890	13500	9090	7080	5980
8		---	1700	1460	1300	1340	3420	7620	13500	8700	6990	5900
9		---	1690	1490	1350	1320	3770	8280	13400	8560	6860	5770
10		---	1670	1450	1390	1330	3930	8720	13700	8530	7000	5430
11		---	1590	1400	1390	1330	4030	9420	13600	8440	7150	4920
12		1400	1570	1360	1360	1330	4230	9630	12900	8010	7320	3990
13		1410	1530	1380	1360	1320	4660	9290	11900	7760	7390	3310
14		1350	1450	1400	1380	1360	4670	9930	10900	7430	7420	2840
15		1370	1360	1420	1360	1320	5010	11000	9990	6790	7440	2580
16		1420	1380	1430	1370	1300	4890	10800	9740	6840	7530	2350
17		1520	1400	1400	1300	1310	5270	10800	9900	7880	7480	2170
18		1510	1400	1400	1360	1400	5300	11900	10800	8770	7460	2180
19		1430	1350	1400	1370	1490	5300	12900	10700	9390	7450	2260
20		1380	1350	1350	1360	1430	5710	13400	10700	9350	7370	2220
21		1330	1350	1300	1320	1430	6310	13800	11400	8950	7270	2140
22		1280	1400	1300	1310	1420	7270	13900	12100	8620	7170	2280
23		1250	1490	1300	1370	1440	7460	14100	11900	8390	7420	2460
24		1250	1500	1320	1380	1460	7480	13800	10900	8220	7490	2480
25		1200	1520	1350	1320	1520	7590	13600	9990	8100	7320	2410
26		1200	1510	1350	1330	1470	7130	13200	9520	7930	6860	2390
27		1200	1510	1350	1360	1470	6750	13100	9110	7900	6760	2340
28		1250	1420	1400	1400	1470	6660	13800	8920	7800	6680	2270
29		1250	1400	1400	1440	1480	6590	13800	9160	7650	6540	2140
30		1300	1490	1410	---	1480	6630	14000	9710	7680	6490	2110
31		---	1470	1400	---	1490	---	14100	---	7720	6410	---
TOTAL			46200	43150	39200	43230	145110	335900	354540	261860	224850	111030
MEAN			1490	1391	1351	1394	4837	10835	11818	8447	7253	3701
MAX			1710	1560	1440	1520	7590	14100	15000	10100	7980	6180
MIN			1350	1300	1280	1280	1550	6730	8920	6790	6410	2110
AC-FT			91640	85590	77750	85750	287800	666300	703200	519400	446000	220200

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1975 to July 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)
NOV					
14...	0810	1270	--	.0	-15.0
DEC					
23...	1655	1490	68	.0	-10.0
FEB					
04...	1700	892	--	.0	-11.0
MAR					
17...	1605	1390	--	6.5	5.0
APR					
27...	1710	6670	187	6.5	3.5
MAY					
21...	1240	13900	191	6.0	26.0
JUN					
22...	1410	12800	180	11.0	19.5
JUL					
27...	1730	7960	181	19.0	29.0

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, Hydrologic Unit 17040103, on right bank 0.3 mi (0.5 km) downstream from Wolf Creek, 6.4 mi (10.3 km) upstream from Greys River, 7.4 mi (11.9 km) east of Alpine, and at mile 928.0 (1,493.2 km).

DRAINAGE AREA.--3,465 mi² (8,974 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1937 to March 1939 (published as "above Greys River, near Alpine"), July 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,683.90 ft (1,732.453 m) above mean sea level, unadjusted. Mar. 16, 1937, to Mar. 31, 1939, at site 6.0 mi (9.7 km) downstream at different datum.

REMARKS.--Records excellent except those for winter period, which are fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

AVERAGE DISCHARGE.--24 years (water years 1938, 1954-76), 4,665 ft³/s (132.1 m³/s), 3,380,000 acre-ft/yr (4.17 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,600 ft³/s (810 m³/s) June 19, 1974, gage height, 11.96 ft (3.645 m); minimum, 740 ft³/s (21.0 m³/s) Nov. 16, 1955, gage height, 2.19 ft (0.668 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,800 ft³/s (561 m³/s) June 4, gage height, 9.71 ft (2.960 m); minimum daily, 1,450 ft³/s (41.1 m³/s) Feb. 6, Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1970	2030	1830	1650	1500	1620	1540	8040	17900	11800	8080	6030
2	1960	2000	1980	1500	1550	1490	1600	8670	18200	12200	8220	5930
3	1950	2030	1890	1500	1650	1470	1790	9270	18900	11500	8110	5860
4	1930	2020	1880	1550	1550	1460	1890	10300	19300	10900	7890	5800
5	1900	1980	1900	1700	1500	1450	1990	10600	19300	10900	7630	5680
6	1890	1980	1970	1700	1450	1480	2320	10600	18600	10900	7370	5710
7	1920	2080	2060	1650	1470	1500	2740	10500	17800	10700	7140	5820
8	1950	2100	2050	1700	1500	1520	3310	11100	17600	10300	6970	5720
9	2030	2040	2040	1700	1520	1510	3840	12200	17400	10000	6820	5610
10	2010	1990	2010	1700	1550	1510	4080	12900	17600	9920	6910	5320
11	2020	1950	1920	1650	1550	1520	4320	14100	17200	9800	7000	4870
12	2030	1840	1920	1600	1580	1480	4650	13500	16000	9400	7160	4120
13	2140	1790	1860	1600	1570	1490	5180	12800	14600	8910	7300	3470
14	2240	1800	1780	1600	1550	1560	5190	14000	13000	8430	7330	2970
15	2140	1820	1700	1650	1550	1500	5560	15600	11600	7690	7290	2660
16	2080	1890	1760	1680	1560	1480	5370	14800	11000	7480	7460	2430
17	2030	1950	1650	1650	1570	1510	5610	14700	11100	8330	7330	2270
18	2020	1950	1650	1600	1560	1570	5720	15800	12400	9360	7310	2270
19	2040	1880	1650	1580	1550	1670	5680	17000	12200	10100	7350	2320
20	2020	1720	1650	1550	1550	1570	6090	17400	12100	9980	7200	2300
21	2000	1700	1700	1520	1480	1560	6960	17700	13300	9460	7090	2210
22	2040	1700	1730	1500	1490	1530	8250	18000	14500	9100	6990	2250
23	2140	1700	1750	1500	1560	1550	8610	18200	14100	8850	7200	2550
24	2130	1700	1740	1500	1580	1550	8610	18600	12700	8660	7370	2580
25	2040	1650	1800	1500	1550	1600	8860	18300	11500	8590	7190	2490
26	2200	1600	1780	1500	1550	1530	8440	17500	10800	8450	6760	2470
27	2240	1650	1720	1500	1560	1550	7790	17100	10300	8350	6590	2410
28	2160	1700	1650	1550	1590	1540	7580	18000	10200	8150	6500	2360
29	2100	1650	1700	1600	1620	1500	7460	18400	10700	7930	6410	2230
30	2040	1650	1700	1560	---	1490	7620	18300	11300	7840	6340	2190
31	2010	---	1700	1550	---	1500	---	18300	---	7820	6240	---
TOTAL	63370	55570	56160	49310	44810	47260	158650	452280	433200	291800	222550	110900
MEAN	2044	1852	1811	1590	1545	1524	5288	14589	14440	9412	7179	3696
MAX	2240	2100	2060	1700	1650	1670	8860	18600	19300	12200	8220	6030
MIN	1890	1600	1650	1500	1450	1450	1540	8040	10200	7480	6240	2190
AC-FT	125700	110200	111400	97810	88880	93740	314700	897100	859300	578800	441400	220000

CAL YR 1975 TOTAL 1766460 MEAN 4839 MAX 18800 MIN 1220 AC-FT 3504000
WTR YR 1976 TOTAL 1985860 MEAN 5425 MAX 19300 MIN 1450 AC-FT 3939000

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Samples collected at bridge at Astoria Springs, 3.0 mi (4.8 km) downstream from Hoback River, 13 mi (21 km) upstream from discharge station, and 15 mi (24 km) northeast of Alpine.

PERIOD OF RECORD.--Water years 1965 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1965 to September 1966, January 1974 to current year.
WATER TEMPERATURES: October 1965 to September 1966, January 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily observed, 430 micromhos Mar. 23, 1976; minimum daily, 188 micromhos June 21, 26, 1974, July 10, 1975.
WATER TEMPERATURES: Maximum, 17.5°C Aug. 22, 1976; minimum, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily observed, 430 micromhos Mar. 23; minimum daily, 198 micromhos June 10, 11, July 8.
WATER TEMPERATURES: Maximum, 17.5°C Aug. 22; minimum, 0.0°C on many days during November to March.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT												
23...	1030	2140	330	7.9	5.0	1	10.3	26	<1	150	27	43
NOV												
10...	1445	1990	280	--	.0	--	--	--	--	--	--	--
21...	1130	A1700	340	7.8	1.0	1	11.4	24	<1	170	47	49
DEC												
21...	1100	A1700	390	7.9	.5	13	11.2	B4	B1	170	47	48
JAN												
23...	1100	A1500	350	8.0	.5	1	12.0	B4	B3	170	55	48
FEB												
20...	1045	1520	240	8.0	.5	1	11.6	B10	<1	150	43	44
MAR												
23...	0845	1550	430	7.4	4.0	1	10.2	23	B8	170	47	49
APR												
24...	0930	8690	250	7.9	2.5	7	11.0	B15	B4	130	23	38
27...	1110	7740	251	--	4.0	--	--	--	--	--	--	--
MAY												
28...	1200	17900	230	7.8	11.0	45	9.5	42	--	95	5	29
JUN												
22...	0805	14300	239	--	9.5	--	--	--	--	--	--	--
26...	1115	10800	235	7.9	9.0	5	8.9	B12	--	100	10	29
JUL												
24...	1000	8640	240	7.7	15.0	10	7.8	37	--	97	15	27
27...	1000	8330	232	--	14.0	--	--	--	--	--	--	--
AUG												
21...	0930	7090	235	7.7	13.5	1	8.5	35	22	87	7	25
SEP												
18...	0930	2250	390	7.7	12.0	0	8.9	20	41	160	37	45

A Daily mean discharge.
B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT												
23...	11	7.6	.3	2.1	150	0	123	49	4.3	.4	12	203
NOV												
10...	--	--	--	--	--	--	--	--	--	--	--	--
21...	11	8.2	.3	2.1	150	0	123	54	4.2	.5	10	213
DEC												
21...	11	8.8	.3	1.9	150	0	123	56	4.2	.5	14	220
JAN												
23...	11	9.4	.3	2.3	140	0	115	52	12	.5	13	220
FEB												
20...	10	8.2	.3	1.9	130	0	107	54	3.5	.5	12	200
MAR												
23...	11	13	.4	2.6	150	0	123	60	9.4	.5	11	230
APR												
24...	7.7	24	.9	4.9	130	0	107	52	20	.9	15	227
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
28...	5.7	7.6	.3	1.6	110	0	90	16	4.5	.4	9.4	129
JUN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
26...	7.2	5.9	.3	1.6	110	0	90	13	5.6	.4	11	129
JUL												
24...	7.2	7.6	.3	1.4	100	0	82	22	1.9	.5	9.7	128
27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
21...	6.0	8.8	.4	1.9	97	0	80	25	1.8	.6	13	130
SEP												
18...	12	11	.4	2.8	150	0	123	58	6.4	.5	12	222

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT											
23...	.28	1170	.00	--	--	--	--	.00	4	23	82
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
21...	.29	978	.00	.06	.00	.15	.21	.00	10	46	71
DEC											
21...	.30	1010	.02	.08	.00	.02	.10	.01	14	64	--
JAN											
23...	.30	891	.07	.08	.04	.74	.82	.01	--	--	--
FEB											
20...	.27	821	.05	.03	.03	.38	.41	.00	5	21	38
MAR											
23...	.31	963	.05	.04	.06	.30	.34	.01	12	50	41
APR											
24...	.31	5330	.07	.10	.05	.44	.54	.03	45	1060	83
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
28...	.18	6230	.14	.24	.25	.98	1.2	.14	457	22100	46
JUN											
22...	--	--	--	--	--	--	--	--	--	--	--
26...	.18	3760	.20	--	--	--	--	.03	94	2740	44
JUL											
24...	.17	2990	.05	.00	.35	.17	.17	.02	23	537	48
27...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	.18	2490	.02	.03	.26	.15	.18	.01	14	268	88
SEP											
18...	.30	1350	.05	.02	.07	.23	.25	.01	9	55	41

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
OCT											
23...	4	1	3	0	0	0	10	10	0	<50	<50
JAN											
23...	4	1	3	<10	<9	1	0	0	0	<50	<50
APR											
24...	10	3	7	<10	<8	2	10	10	0	<50	<50
JUL											
24...	3	0	3	<10	<9	1	0	0	0	<50	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)
OCT											
23...	0	0	0	1	40	30	100	97	3	0	0
JAN											
23...	0	<10	<9	1	30	0	<100	<97	3	0	0
APR											
24...	0	10	8	2	380	10	<100	<92	8	30	30
JUL											
24...	0	<10	<7	3	210	10	<100	<97	3	10	10

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT										
23...	0	.0	.0	.0	0	0	0	5	3	2
JAN										
23...	0	.0	.0	.0	0	0	0	50	50	0
APR										
24...	0	.0	.0	.0	0	0	0	10	10	0
JUL										
24...	0	.0	.0	.0	0	0	0	0	0	20

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ATRA-ZINE (UG/L)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)
OCT												
23...	--	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND
JAN												
23...	8.8	ND	--	ND	ND	--	ND	--	ND	--	ND	--
APR												
24...	3.0	--	--	--	--	--	--	--	--	--	--	--
MAY												
28...	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL												
24...	1.9	--	--	--	--	--	--	--	--	--	--	--
AUG												
21...	--	ND	--	ND	ND	--	ND	--	ND	--	ND	--

ND Analyzed for but none detected.

DATE	TOTAL DI-AZINON (UG/L)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)
OCT												
23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JAN												
23...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
APR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
28...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
21...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--

ND Analyzed for but none detected.

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL METH-OXY-CHLOR (UG/L)	METHOX-YCHLOR IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL METHYL PARA-THION (UG/L)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL PARA-THION (UG/L)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG)
OCT												
23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JAN												
23...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--
APR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
28...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
21...	ND	--	ND	--	ND	--	ND	--	ND	--	ND	--

ND Analyzed for but none detected.

DATE	SIMA-ZINE TOTAL (UG/L)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MA-TERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MA-TERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MA-TERIAL (UG/KG)
OCT											
23...	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
JAN											
23...	--	ND	--	ND	--	ND	--	ND	--	ND	--
APR											
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
28...	--	ND	ND	ND	ND	--	--	--	--	--	--
JUL											
24...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	ND	ND	--	ND	--	ND	--	ND	--	ND	--

ND Analyzed for but none detected.

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	341	361	356	359	338	333	335	246	205	211	277	218
2	339	366	345	362	355	336	321	245	205	210	280	222
3	346	364	345	349	352	346	321	248	203	214	295	217
4	351	359	356	344	341	349	318	248	203	217	296	223
5	352	367	336	344	352	349	318	249	200	209	301	220
6	357	362	344	341	352	351	302	251	200	211	287	223
7	351	362	355	344	352	354	286	252	203	209	294	221
8	346	337	361	349	352	344	275	251	201	198	293	222
9	352	347	361	340	336	344	268	249	200	208	290	224
10	353	354	356	342	336	340	264	245	198	205	291	229
11	351	360	364	343	346	340	267	240	198	207	288	234
12	345	356	353	338	339	339	269	241	201	215	286	257
13	350	352	361	349	339	342	268	248	217	216	283	273
14	345	370	343	349	335	340	268	241	219	217	286	286
15	350	363	360	341	339	335	264	235	224	225	274	300
16	356	372	358	338	339	338	258	235	224	226	292	303
17	351	368	359	325	339	340	247	234	229	215	294	304
18	347	358	354	328	339	336	250	229	227	213	283	327
19	341	350	349	338	341	336	249	218	228	214	283	321
20	340	358	350	347	344	332	243	217	226	215	281	318
21	358	361	355	355	346	341	236	217	219	216	283	321
22	347	375	352	357	353	341	233	206	210	214	241	333
23	336	375	351	344	356	341	232	208	211	225	255	327
24	336	375	351	345	347	341	235	208	213	216	267	317
25	328	364	339	345	340	327	237	211	223	217	267	317
26	331	372	337	348	340	333	236	210	225	214	259	311
27	342	364	339	351	340	351	236	210	225	217	281	325
28	348	364	347	343	335	331	240	209	227	218	282	315
29	348	356	354	338	332	331	238	205	243	222	262	327
30	376	378	344	345	---	328	245	205	218	221	278	328
31	366	---	347	341	---	344	---	206	---	223	271	---
MONTH	348	362	351	345	343	340	265	230	214	215	281	279
YEAR	MAX	378	MIN	198	MEAN	298						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	5.0	0.5	1.0	1.5	1.5	4.0	4.5	8.5	10.0	15.0	13.5
2	8.5	6.0	2.0	0.5	1.5	0.5	4.0	4.0	8.0	10.5	14.5	13.0
3	8.0	5.0	2.0	0.5	1.0	0.0	4.0	5.0	8.5	10.0	13.0	13.5
4	9.0	5.0	2.5	1.0	0.5	0.0	3.5	5.0	8.5	10.5	12.5	13.0
5	9.0	5.0	3.5	1.0	0.0	1.0	4.0	4.0	8.0	15.5	12.5	13.0
6	9.0	5.5	4.0	0.5	0.0	0.0	5.5	6.0	9.0	10.5	15.0	14.0
7	10.0	5.0	4.5	1.0	0.0	0.5	4.5	5.0	8.0	10.5	13.5	12.5
8	8.0	4.0	4.0	1.0	0.5	0.0	4.5	5.5	9.0	15.0	13.0	10.5
9	6.5	2.5	5.0	1.0	1.5	0.0	4.5	5.0	9.0	11.5	13.5	10.5
10	7.0	2.0	4.0	1.0	1.5	1.0	4.0	5.5	9.0	12.0	13.5	12.0
11	7.5	1.5	4.0	1.0	0.5	2.0	4.5	6.5	8.0	11.5	13.0	13.5
12	8.0	0.0	3.5	1.0	1.0	0.0	4.5	4.0	8.0	16.5	13.5	13.0
13	8.0	0.0	2.0	1.0	2.0	1.0	4.0	5.5	8.0	10.5	14.0	11.0
14	7.5	0.5	0.5	1.0	2.0	0.5	4.0	6.5	7.0	11.5	13.5	12.0
15	6.5	1.0	1.0	2.0	1.0	0.0	5.0	6.5	7.0	11.5	15.0	10.0
16	7.5	4.0	1.5	2.0	1.0	1.5	3.0	6.5	9.0	12.0	12.5	11.0
17	7.5	5.0	0.0	3.0	1.0	3.0	4.5	6.0	8.5	12.0	12.0	11.5
18	7.5	3.0	0.5	4.0	1.0	3.5	5.0	7.0	8.0	16.5	14.0	12.0
19	7.0	2.5	0.5	1.0	1.0	4.0	4.5	6.0	9.0	12.0	13.0	10.0
20	10.0	0.0	0.0	0.5	1.0	1.5	4.0	7.0	10.0	13.5	13.5	10.5
21	9.5	1.0	0.5	0.0	0.0	1.5	4.0	7.0	10.0	13.5	13.5	10.5
22	7.5	1.0	0.5	0.0	0.5	3.0	4.5	7.0	10.0	13.0	17.5	12.0
23	6.0	1.0	0.5	1.0	0.0	3.0	3.5	7.0	9.0	13.0	15.0	10.0
24	5.0	2.5	0.5	1.0	1.0	3.0	3.5	10.0	8.5	14.0	14.0	11.0
25	4.5	1.0	1.0	0.5	1.0	2.0	3.5	7.5	9.0	15.0	14.0	10.0
26	4.0	1.0	1.0	1.0	2.5	2.0	2.0	7.0	9.0	15.0	15.0	10.0
27	4.0	1.0	2.0	1.0	2.5	3.0	3.0	8.5	9.0	13.5	12.0	10.5
28	4.0	1.0	0.0	0.0	3.0	3.0	4.0	8.5	10.0	14.0	12.0	10.0
29	3.5	1.0	0.0	1.0	2.5	2.5	4.5	9.0	10.5	13.5	14.5	9.5
30	4.0	0.0	1.0	1.0	---	2.0	4.0	8.5	13.0	13.0	13.0	10.0
31	5.0	---	0.5	1.0	---	3.0	---	8.5	---	14.0	13.0	---
MONTH	7.0	2.5	1.5	1.0	1.0	1.5	4.0	6.5	9.0	12.5	13.5	11.5
YEAR	MAX	17.5	MIN	0.0	MEAN	6.0						

13022500 SNAKE RIVER AEOVE RESERVOIR, NEAR ALPINE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

DATE	NOV 21,75	DEC 21,75	JAN 23,76	FEB 20,76	MAR 23,76	APR 24,76
TIME	1130	1100	1100	1045	0845	0930
TOTAL CELLS/ML	460	600	860	840	1200	2400
DIVERSITY: DIVISION	0.0	0.0	0.0	0.0	0.5	0.5
.CLASS	0.0	0.0	0.0	0.0	0.5	0.5
..ORDER	0.0	0.0	0.0	0.0	0.5	0.7
...FAMILY	2.4	2.6	2.6	2.6	2.7	2.7
....GENUS	2.6	2.9	2.8	2.9	2.9	3.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	--	-	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-	--	-
...HAEMATOCOCCACEAE												
....HAEMATOCOCCUS	--	-	--	-	--	-	--	-	120	10	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	--	-	--	-	--	-	--	-	--	-	54	3
....MELOSIRA	--	-	--	-	--	-	--	-	--	-	--	-
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	25	6	100#	18	45	6	110	14	180#	15	160	7
....COCCONEIS	62	14	29	5	23	3	*	0	120	10	110	5
....RHOICOSPHENIA	--	-	*	0	--	-	*	0	--	-	--	-
...CYMBELLACEAE												
....AMPHORA	--	-	--	-	--	-	--	-	--	-	54	3
....CYMBELLA	62	14	15	3	45	6	72	9	300#	25	54	3
....EPITHEMIA	*	0	15	3	--	-	10	2	--	-	110	5
....RHOPALODIA	--	-	--	-	--	-	--	-	--	-	54	3
...DIATOMACEAE												
....DIATOMA	170#	38	59	10	110	14	51	7	30	3	110	5
...EUNOTIACEAE												
....EUNOTIA	--	-	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE												
....ASTERIONELLA	--	-	--	-	--	-	--	-	--	-	--	-
....FRAGILARIA	--	-	29	5	230#	27	62	8	180#	15	920#	39
....HANNAEA	--	-	--	-	--	-	--	-	*	0	--	-
....SYNEDRA	12	3	15	3	--	-	220#	26	*	0	54	3
...GOMPHONEMATACEAE												
....GOMPHONEMA	25	6	100#	18	160#	19	110	14	180#	15	160	7
...NAVICULACEAE												
....NAVICULA	50	11	88#	15	160#	19	110	14	91	8	160	7
....NEIDIUM	--	-	--	-	--	-	--	-	--	-	--	-
....PINNULARIA	--	-	--	-	23	3	--	-	--	-	--	-
...NITZSCHIACEAE												
....HANTZSCHIA	--	-	--	-	--	-	--	-	--	-	--	-
....NITZSCHIA	50	11	150#	25	60	8	92	11	30	3	110	5
...SURIRELLACEAE												
....CYMATOPLEURA	--	-	*	0	--	-	--	-	--	-	--	-
....SURIRELLA	--	-	*	0	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)												
.MYXOPHYCEAE												
..CHROOCOCCALES												
...CHROOCOCCACEAE												
....ANACYSTIS	--	-	--	-	--	-	--	-	--	-	--	-
..OSCILLATORIALES												
...NOSTOCACEAE												
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE												
....OSCILLATORIA	--	-	--	-	--	-	--	-	--	-	270	12
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON ANALYSES

	MAY 28.76	JUN 26.76	JUL 24.76	AUG 21.76	SEP 18.76
DATE	MAY 28.76	JUN 26.76	JUL 24.76	AUG 21.76	SEP 18.76
TIME	1200	1115	1000	0930	0930
TOTAL CELLS/ML	1900	690	390	550	330
DIVERSITY: DIVISION	1.0	0.1	0.5	0.0	0.0
.CLASS	1.0	0.1	0.5	0.0	0.0
..ORDER	2.0	0.7	0.7	0.3	0.0
...FAMILY	3.0	2.8	3.0	2.4	2.3
....GENUS	3.4	3.4	3.4	2.4	2.6

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	10	2	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	16	5	--	-	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	34	2	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	17	1	--	-	*	0	--	-	--	-
...HAEMATOCOCCACEAE										
....HAEMATOCOCCUS	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	540#	29	19	3	--	-	--	-	--	-
....MELOSIRA	150	8	68	10	16	5	36	7	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	51	3	10	2	4	2	--	-	--	-
....COCCONEIS	51	3	19	3	--	-	54	10	29	9
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	14	5
...CYMBELLACEAE										
....AMPHORA	17	1	10	2	--	-	--	-	--	-
....CYMBELLA	100	6	--	-	20	6	71	13	43	14
....EPITHEMIA	--	-	10	2	4	2	--	-	14	5
....RHOPALODIA	--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	17	1	78	12	120#	31	89#	17	100#	31
...EUNOTIACEAE										
....EUNOTIA	--	-	--	-	4	2	--	-	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	97	15	--	-	*	0	--	-
....FRAGILARIA	--	-	87	13	24	7	*	0	--	-
....HANNAEA	17	1	*	0	4	2	--	-	--	-
....SYNEDRA	85	5	10	2	12	4	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	100	6	130#	19	49	13	36	7	14	5
...NAVICULACEAE										
....NAVICULA	200	11	97	15	45	12	230#	42	22	7
....NEIDIUM	--	-	--	-	4	2	--	-	--	-
....PINNULARIA	34	2	--	-	--	-	--	-	--	-
...NITZSCHIACEAE										
....HANTZSCHIA	--	-	19	3	12	4	--	-	--	-
....NITZSCHIA	68	4	29	5	33	9	36	7	93#	29
...SURIRELLACEAE										
....CYMATOPLEURA	--	-	--	-	--	-	--	-	--	-
....SURIRELLA	--	-	--	-	8	3	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
.MYXOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	140	8	--	-	--	-	--	-	--	-
..OSCILLATORIALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	16	5	--	-	--	-
...OSCILLATORIACEAE										
....OSCILLATORIA	270	15	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)										
.EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	17	1	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

FEB. 20, 1976
1045 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_________	_COMMON__NAME________
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE
	..CHRYSOCAPSALES	
	...HYDRURACEAE	
E	....HYDRURUS	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMES SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

NOV. 21, 1975
1130 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_________	_COMMON__NAME________
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	...ULOTRICHACEAE	
O	....ULOTHRIX	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
O	....EPITHEMIA	
	...DIATOMACEAE	
E	....DIATOMA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....CYMATOPLEURA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON ANALYSES

SEP. 18, 1976
0930 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
	...CYMBELLACEAE	
O	....CYMBELLA	
E	....EPITHEMIA	
O	....RHOPALODIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....CYMATOPLEURA	
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°08'35", long 110°58'34", in SW¼SE¼ sec.34, T.37 N., R.118 W., (unsurveyed), Lincoln County, Hydrologic Unit 17040103, on right bank at Bridge Campground, 3 mi (5 km) upstream from mouth, and 3.6 mi (5.8 km) southeast of Alpine.

DRAINAGE AREA.--448 mi² (1,160 km²). Mean altitude, 8,080 ft (2,460 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to September 1917, June to September 1918, March 1937 to March 1939, October 1953 to current year. Published as Greys River near Alpine, ID, 1917-18 and as Greys River near Alpine, WY, 1937-39.

REVISED RECORDS.--WRD ID 1967: 1966.

GAGE.--Water-stage recorder. Altitude of gage is 5,720 ft (1,740 m), from topographic map. July 6 to Sept. 30, 1917, and June 4 to Sept. 30, 1918, nonrecording gage and Mar. 17, 1937, to Mar. 31, 1939, water-stage recorder, at site 1.8 mi (2.9 km) downstream, and October 1953 to Sept. 22, 1965, water-stage recorder at site 1 mi (1.6 km) downstream at different datums.

REMARKS.--Records good except those for winter periods, which are fair. Less than 500 acres (202 hm²) irrigated by diversions from Greys River and tributaries above station.

AVERAGE DISCHARGE.--24 years (water years 1938, 1954-76), 671 ft³/s (19.00 m³/s), 20.33 in/yr (516 mm/yr), 486,100 acre-ft/yr (599 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,230 ft³/s (205 m³/s) June 19, 1971, gage height, 6.33 ft (1.929 m); maximum gage height observed, 19.1 ft (5.82 m), former site and datum, about Dec. 18, 1965 (ice jam); minimum discharge, 111 ft³/s (3.14 m³/s) Dec. 7, 1960, gage height, 2.45 ft (0.747 m), former site and datum.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 20	0230	*3,590	102	5.17	1.576

Minimum discharge, 123 ft³/s (3.48 m³/s) Mar. 5, gage height, 1.13 ft (0.344 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	414	371	240	215	195	256	234	930	2940	2040	886	463
2	418	371	270	200	190	208	248	1170	3060	2000	786	460
3	405	371	270	205	215	197	252	1460	3150	1840	762	456
4	401	363	270	210	200	190	282	2040	3150	1770	740	451
5	397	359	280	220	200	179	350	2020	3100	1750	707	442
6	397	359	300	215	190	190	423	2140	3100	1710	682	464
7	397	375	310	210	190	201	410	2190	3100	1680	656	488
8	428	367	310	210	200	201	423	2150	3080	1640	637	459
9	418	350	300	205	210	208	535	2330	3020	1580	628	448
10	405	324	295	210	210	219	480	2470	2950	1520	621	446
11	401	295	290	215	205	230	566	2850	2890	1490	607	439
12	401	290	275	215	205	226	748	2530	2540	1470	606	482
13	428	290	255	200	200	219	754	2430	2530	1400	596	453
14	428	310	240	215	200	226	710	2760	2160	1290	583	446
15	418	320	245	220	200	226	766	3090	1890	1210	577	437
16	405	330	250	225	200	208	682	2880	1920	1160	601	467
17	397	320	250	230	200	211	588	2880	1810	1130	570	469
18	397	300	240	215	200	230	545	3170	1870	1140	572	455
19	380	280	225	210	200	256	525	3330	1760	1100	570	449
20	380	280	220	205	185	234	519	3300	1870	1040	545	438
21	384	280	230	200	185	226	556	3130	2060	993	529	435
22	392	290	217	210	200	215	650	3260	2140	958	522	438
23	397	290	220	205	220	222	679	3230	2020	930	569	448
24	384	290	220	205	230	230	698	3150	1840	937	562	430
25	371	290	230	205	245	237	824	2920	1760	923	528	419
26	414	285	230	205	245	230	779	2790	1680	856	514	419
27	419	270	230	210	240	226	685	2820	1640	870	513	408
28	388	260	230	230	237	222	650	2990	1660	799	503	406
29	363	255	230	215	260	208	644	3120	1760	774	490	397
30	380	230	230	205	---	215	754	3100	1910	755	488	392
31	384	---	230	200	---	219	---	2990	---	769	471	---
TOTAL	12383	9365	7832	6540	6057	6765	16939	81620	70360	39524	18616	13266
MEAN	399	312	252	210	208	218	564	2632	2345	1274	600	442
MAX	428	375	310	230	260	256	824	3330	3150	2040	886	488
MIN	363	230	217	200	185	179	234	930	1640	755	471	392
CFSM	.89	.70	.56	.47	.47	.49	1.26	5.88	5.24	2.85	1.34	.99
IN.	1.03	.78	.65	.54	.50	.56	1.41	6.78	5.84	3.28	1.55	1.10
AC-FT	24560	18580	15530	12970	12010	13420	33600	161900	139600	78400	36920	26310

CAL YR 1975 TOTAL 264027 MEAN 723 MAX 3420 MIN 190 CFSM 1.61 IN 21.92 AC-FT 523700
WTR YR 1976 TOTAL 289267 MEAN 790 MAX 3330 MIN 179 CFSM 1.76 IN 24.02 AC-FT 573800

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	AIR TEMPER-ATURE (DEG C)
NOV 10...	1025	324	259	.0	-.5
DEC 22...	1125	217	188	.0	-3.0
FEB 03...	1025	216	264	.0	-9.0
APR 26...	1310	760	279	3.0	.0
JUN 21...	1140	2060	284	7.0	18.0
JUL 26...	1300	846	313	13.5	19.0
SEP 08...	1210	476	--	8.0	16.0

13025000 SWIFT CREEK NEAR AFTON, WY

LOCATION.--Lat 42°43'30", long 110°54'00", in SE¼ sec.29, T.32 N., R.118 W., Lincoln County, Hydrologic Unit 17040105, Bridger National Forest, on right bank 1.0 mi (1.6 km) upstream from mouth of canyon, 1.5 mi (2.4 km) east of Afton, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--27.4 mi² (71.0 km²).

PERIOD OF RECORD.--October 1942 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft (1,957 m), from topographic map.

REMARKS.--Records poor. Small powerplant and reservoir, adjudication, 48.45 acre-ft/yr (0.060 hm³/yr), 0.2 mi (0.3 km) upstream. Pipeline, adjudication, 2.5 ft³/s (0.071 m³/s), diverts water above station for town of Afton. No diversion for irrigation above station.

COOPERATION.--Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

AVERAGE DISCHARGE.--29 years (water years 1943-71), 86.9 ft³/s (2.461 m³/s), 62,960 acre-ft/yr (77.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 793 ft³/s (22.5 m³/s) July 6, 1975, gage height, 3.78 ft (1.152 m); minimum daily, 20 ft³/s (0.57 m³/s) Dec. 30, 1958.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 390 ft³/s (11.0 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
June 9	0230	*463	13.1	3.31	1.009

Minimum daily discharge during period of operation, 44 ft³/s (1.25 m³/s) May 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								44	276	371	156	78
2								46	288	348	140	77
3								51	317	308	128	77
4								61	376	300	123	76
5								62	389	300	116	76
6								65	394	296	110	77
7								71	438	292	113	77
8								76	438	300	108	76
9								91	433	296	103	74
10								103	413	300	101	74
11								116	443	292	99	74
12								110	340	288	97	77
13								113	296	280	95	74
14								133	244	247	95	71
15								158	224	227	93	70
16								153	215	218	91	70
17								163	203	209	89	67
18								196	198	218	95	67
19								212	206	218	93	65
20								227	233	206	91	65
21								236	296	198	89	64
22								261	326	188	87	64
23								261	304	186	93	64
24								258	261	178	89	64
25								236	254	180	87	61
26								221	258	176	83	61
27								233	261	166	82	60
28								280	300	156	80	58
29								312	312	146	78	57
30								312	348	138	80	55
31								292	---	143	80	---
TOTAL								5153	9284	7369	3064	2070
MEAN								166	309	238	98.8	69.0
MAX								312	443	371	156	78
MIN								44	198	138	78	55
AC-FT								10220	18410	14620	6080	4110

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY

LOCATION.--Lat 43°04'47", long 111°02'12", in SW¼NE¼ sec.28, T.36 N., R.119 W., Lincoln County, Hydrologic Unit 17040105, on right bank 3.4 mi (5.5 km) northwest of Etna and at mile 8.0 (12.9 km).

DRAINAGE AREA.--829 mi² (2,147 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,675.78 ft (1,729.977 m) above mean sea level.

REMARKS.--Records excellent. Diversions above station for power developments, industry, municipal supply, and irrigation of about 60,500 acres (245 km²) of which about 1,000 acres (405 hm²) are below station (1966 determination). For details on adjudication of diversions, see Remarks for this station in WSP 1347.

AVERAGE DISCHARGE.--23 years, 784 ft³/s (22.20 m³/s), 568,000 acre-ft/yr (700 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,870 ft³/s (110 m³/s) June 1, 1971, gage height, 5.30 ft (1.615 m); minimum, 160 ft³/s (4.53 m³/s) Jan. 7, 8, 1971, gage height, 1.53 ft (0.466 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,760 ft³/s (106 m³/s) May 20, gage height, 5.23 ft (1.594 m); minimum, 396 ft³/s (11.2 m³/s) Feb. 21-23, Mar. 13, gage height, 1.87 ft (0.570 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	773	733	634	527	469	497	466	1830	2600	1200	781	741
2	769	724	658	506	459	462	474	2090	2500	1220	782	735
3	758	719	652	519	463	455	476	2300	2410	1200	779	726
4	756	707	631	527	470	459	479	2580	2330	1200	786	729
5	748	702	628	546	451	457	499	2820	2270	1190	777	718
6	745	700	658	533	437	457	549	2790	2230	1170	764	728
7	755	707	687	525	444	458	616	2840	2200	1150	747	760
8	795	714	685	534	442	450	681	3040	2120	1120	731	739
9	788	696	685	537	465	443	769	3180	2030	1110	722	738
10	775	686	674	534	455	436	838	3260	1980	1080	718	750
11	767	672	656	514	436	432	892	3400	2040	1050	713	767
12	762	653	648	547	439	423	1010	3360	2030	1040	723	783
13	803	649	640	534	439	420	1080	3190	2110	1020	715	780
14	845	653	621	524	436	430	1150	3330	2060	1010	718	766
15	822	657	610	528	437	420	1230	3580	1930	1000	716	762
16	793	663	618	532	439	413	1190	3560	1880	1040	741	768
17	775	663	614	535	442	416	1040	3520	1810	1040	730	770
18	760	663	572	539	443	425	958	3610	1730	1060	725	786
19	758	664	563	534	448	468	970	3670	1670	1020	739	786
20	748	644	554	515	438	465	1010	3680	1560	1070	729	778
21	748	629	561	497	419	460	1070	3590	1560	1010	720	763
22	756	614	535	525	424	454	1270	3500	1550	973	726	770
23	764	635	549	500	437	458	1470	3490	1570	940	761	784
24	756	642	561	508	435	459	1600	3430	1520	917	780	777
25	743	632	563	501	436	475	1620	3340	1430	887	779	763
26	749	622	563	501	429	467	1700	3180	1360	858	771	760
27	853	631	576	490	430	466	1440	2960	1290	799	764	757
28	803	636	549	498	445	467	1360	2870	1260	747	763	750
29	761	623	545	495	477	461	1380	2860	1230	736	763	752
30	752	615	568	492	---	460	1590	2800	1200	729	759	747
31	747	---	558	485	---	461	---	2720	---	760	752	---
TOTAL	23986	19944	18816	16087	12882	13974	31075	96370	55460	31346	23174	22733
MEAN	773	664	606	518	444	450	1035	3108	1848	1011	747	757
MAX	853	733	687	547	477	497	1820	3680	2600	1220	786	786
MIN	743	614	535	485	419	413	466	1830	1200	729	713	718
AC-FT	47570	39560	37320	31910	25550	27720	61640	191100	110000	62170	45970	45090

CAL YR 1975 TOTAL 369854 MEAN 1013 MAX 3530 MIN 430 AC-FT 733600
WTR YR 1976 TOTAL 365845 MEAN 999 MAX 3680 MIN 413 AC-FT 725700

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT									
23...	0900	764	--	6.0	1	9.3	B36	220	23
NOV									
10...	1240	686	305	4.0	--	--	--	--	--
21...	0830	629	--	1.0	5	9.8	27	230	25
DEC									
21...	0900	561	--	2.0	15	10.2	B4	230	17
JAN									
23...	0915	474	--	1.5	3	10.4	24	230	17
FEB									
03...	1240	413	207	6.0	--	--	--	--	--
20...	0915	438	--	1.0	2	10.2	B10	220	23
MAR									
23...	0730	454	--	4.0	4	9.5	B12	220	23
APR									
24...	0830	1630	--	3.5	60	10.2	130	210	21
27...	0840	1460	440	3.5	--	--	--	--	--
MAY									
20...	1000	2920	--	10.5	20	9.5	54	180	8
JUN									
21...	1350	1560	476	14.0	--	--	--	--	--
26...	0830	1360	--	10.0	1	8.1	60	230	33
JUL									
24...	0800	922	--	13.5	1	7.2	130	230	25
26...	1545	871	452	17.0	--	--	--	--	--
AUG									
21...	0745	715	--	11.0	1	8.1	150	230	25
SEP									
18...	0800	786	--	11.0	1	8.4	140	230	25

B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT									
23...	57	19	13	.4	1.4	240	0	197	32
NOV									
10...	--	--	--	--	--	--	--	--	--
21...	64	18	14	.4	1.6	250	0	205	36
DEC									
21...	62	20	7.0	.2	1.4	260	0	213	21
JAN									
23...	61	20	7.0	.2	1.4	260	0	213	20
FEB									
03...	--	--	--	--	--	--	--	--	--
20...	62	17	15	.4	2.1	240	0	197	34
MAR									
23...	59	18	16	.5	.9	240	0	197	34
APR									
24...	59	14	23	.7	2.6	230	0	189	30
27...	--	--	--	--	--	--	--	--	--
MAY									
20...	52	13	9.9	.3	1.2	210	0	172	12
JUN									
21...	--	--	--	--	--	--	--	--	--
26...	63	17	13	.4	.9	240	0	197	28
JUL									
24...	60	20	13	.4	.9	250	0	205	30
26...	--	--	--	--	--	--	--	--	--
AUG									
21...	61	19	12	.3	1.2	250	0	205	30
SEP									
18...	60	19	15	.4	1.9	250	0	205	35

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY.--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT								
23...	12	.2	6.9	263	.36	543	.75	.01
NOV								
10...	--	--	--	--	--	--	--	--
21...	15	.2	6.5	281	.38	477	.90	.02
DEC								
21...	11	.1	8.4	268	.36	406	1.9	.04
JAN								
23...	8.7	.1	8.7	262	.36	335	1.9	.05
FEB								
03...	--	--	--	--	--	--	--	--
20...	16	.2	6.6	273	.37	323	.70	.01
MAR								
23...	20	.1	6.9	274	.37	336	.75	.02
APR								
24...	27	.1	8.7	279	.38	1230	.47	.15
27...	--	--	--	--	--	--	--	--
MAY								
28...	13	.2	5.4	213	.29	1680	.41	.09
JUN								
21...	--	--	--	--	--	--	--	--
26...	14	.2	6.5	261	.36	958	.41	.03
JUL								
24...	13	.2	5.7	268	.36	667	.75	.01
26...	--	--	--	--	--	--	--	--
AUG								
21...	12	.2	6.3	277	.38	535	1.2	.01
SEP								
18...	15	.2	7.2	277	.38	588	.86	.01

DATE	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	POLY-CHLO-RINATED NAPH-THA-LENES (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)
SEP												
18...	.0	0	.00	.00	.0	.0	0	.00	.0	.00	.1	.00

DATE	DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
SEP												
18...	.0	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
SEP											
18...	.0	.00	.00	.00	.00	0	0	.00	.00	.00	.00

13046500 GRASSY LAKE NEAR MORAN, WY

LOCATION.--Lat 44°07'45", long 110°49'05", in NE¼ sec.18, T.48 N., R.116 W., Teton County, Hydrologic Unit 17040203, in gatehouse at dam 0.4 mi (0.6 km) upstream from mouth on Grassy Creek, which is tributary to headwaters of Falls River, and 25.4 mi (40.9 km) northwest of Moran, WY.

DRAINAGE AREA.--10.4 mi² (26.9 km²), including basin of Cascade Creek, from which water is diverted into Grassy Lake.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Mercury pressure gage. Datum of gage is mean sea level (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earth-fill, rock-faced dam; storage began Oct. 18, 1939. Capacity, 15,200 acre-ft (18.7 hm³) between elevations 7,135.0 ft (2,174.75 m), sill of trashrack, and 7,210.0 ft (2,197.61 m), crest of spillway. Water is used for irrigation of lands in Fremont-Madison irrigation district, ID. Gage read about twice monthly. Records given herein represent usable contents.

COOPERATION.--Gage-height record and capacity table furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 15,400 acre-ft (19.0 hm³) July 2, 1943, elevation, 7,210.85 ft (2,197.867 m); no contents Oct. 2-5, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 15,200 acre-ft (18.7 hm³) June 16, 18, 21, July 6, 15, 26, 30; maximum elevation observed, 7,210.05 ft (2,197.623 m) June 18, July 26; minimum contents observed, 9,820 acre-ft (12.1 hm³) Oct. 1, 6, 9, elevation, 7,191.35 ft (2,191.923 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ELEVATION (FEET)	CONTENTS (ACRE-FEET)	CHANGE IN CONTENTS (ACRE-FEET)
Sept. 30	-	a9,900	-
Oct. 31	-	a9,920	+20
Nov. 30	-	a10,200	+280
Dec. 31	-	a10,400	+200
CALENDAR YEAR 1975	-		-100
Jan. 31	-	a10,600	+200
Feb. 29	-	a10,700	+100
Mar. 31	-	a10,900	+200
Apr. 30	7,196.15	11,100	+200
May 31	-	a13,200	+2,100
June 30	-	a15,100	+1,900
July 31	-	a15,200	+100
Aug. 31	7,197.30	11,400	-3,800
Sept. 30	-	a10,300	-1,100

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Green River basin					
09204700	Sand Springs Draw tributary near Boulder, WY	Lat 42°35'07", long 109°37'23", in SW¼NE¼ sec.8, T.30 N., R.107 W., Sublette County, at culvert on U.S. Highway 187 and 12.4 miles southeast of Boulder.	2.77	1961-76	4- -76	a6.44	b10
c09207650	Dry Basin Creek near Big Piney, WY	Lat 42°25'28", long 110°06'35", in SW¼NW¼ sec.12, T.28 N., R.112 W., Sublette County, just downstream from bridge on U.S. Highway 89, about 2,000 ft upstream from mouth, and 7.8 miles south of Big Piney.	47.2	1971-76	8-23-76	d3.36	150
09211300	Fourmile Gulch tributary near Fontenelle, WY	Lat 42°03'09", long 109°59'40", in SW¼SE¼ sec.15, T.24 N., R.111 W., Sweetwater County, 0.7 mile upstream from Lincoln-Sweetwater Road and 6.0 miles northeast of Fontenelle.	14.2	1971-76	3- -76	5.38	6
c09216290	East Otterson Wash near Green River, WY	Lat 41°47'04", long 109°44'03", in SE¼SW¼NE¼ sec.23, T.21 N., R.109 W., Sweetwater County, 0.1 mile downstream from dirt road, 0.9 mile upstream from mouth, and 21 miles northwest of Green River.	16.6	1969-76	8- 1-76	8.45	500
09216350	Skunk Canyon Creek near Green River, WY	Lat 41°43'55", long 109°30'39", in NW¼NE¼ sec.8, T.20 N., R.107 W., Sweetwater County, 0.4 mile upstream from mouth and 14.0 miles north of Green River.	15.7	1965, 1971-76	3- -76	5.77	43
c09216537	Delaney Draw near Red Desert, WY	Lat 41°38'22", long 108°07'43", in SW¼NE¼ sec.8, T.19 N., R.95 W., Sweetwater County, 1.0 mi southwest of Red Desert and 1.7 miles upstream from culvert on Interstate Highway 80. Oct. 1, 1960, to Sept. 30, 1969, at site 1.6 miles downstream and Oct. 1, 1969, to Sept. 30, 1976, at site 0.4 mile downstream at different datums.	a34.5	1961-76	8- 1-76	16.66	610
c09216550	Deadman Wash near Point of Rocks, WY	Lat 41°40'30", long 108°44'10", in SE¼ sec.25, T.20 N., R.101 W., Sweetwater County, at bridge on old U.S. Highway 30 and 2.8 miles east of Point of Rocks.	152	1962-76	3- -76	6.53	370
c09216580	Big Flat Draw near Rock Springs, WY	Lat 41°18'57", long 108°53'50", in NE¼NW¼NE¼ sec.4, T.15 N., R.102 W., Sweetwater County, 0.3 mile upstream from mouth and 25 miles southeast of Rock Springs.	19.5	1973-76	7-25-76	16.01	131
09216600	Cutthroat Draw near Rock Springs, WY	Lat 41°27'25", long 108°56'30", in NW¼ sec.17, T.17 N., R.102 W., Sweetwater County, at culvert on State Highway 430 and 17 miles southeast of Rock Springs.	7.88	1959-76	7-31-76	8.22	280
c09216695	No Name Creek near Rock Springs, WY	Lat 41°28'54", long 108°58'17", in SW¼SW¼NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, 700 ft upstream from mouth, and 15 miles southeast of Rock Springs.	18.2	1973-76	7-31-76	15.15	29
c09216700	Salt Wells Creek near Rock Springs, WY (station discontinued)	Lat 41°29'00", long 108°58'00", in NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, at bridge on old State Highway 430 and 15 miles southeast of Rock Springs. Prior to Apr. 12, 1962, at site 500 ft downstream at different datum.	515	1959-76	7-31-76	5.44	920

See footnotes at end of table, p. 315.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Green River basin--Continued					
09216900	Bitter Creek tributary near Green River, WY	Lat 41°31'58", long 109°22'49", in SE¼SW¼ sec.16, T.18 N., R.106 W., Sweetwater County, at culvert on U.S. Highway 30 and 4 miles east of Green River.	1.65	1959-76	5-20-75 4- 5-76	e14.92 15.00	(†) (†)
09221680	Mud Spring Hollow near Church Butte, near Lyman, WY	Lat 41°23'05", long 110°11'12", in SW¼NE¼ sec.7, T.16 N., R.113 W., Uinta County, on left bank 0.4 mile upstream from culvert on U.S. Highway 30S and 6.7 miles northeast of Lyman.	8.83	1965-76	3- -76	1.09	18
09224600	Blacks Fork tributary near Granger, WY	Lat 41°32'04", long 109°56'11", in SE¼SW¼ sec.15, T.18 N., R.111 W., Sweetwater County, at culvert on U.S. Highway 30S and 4.3 miles south of Granger. (Peaks after 1966 affected by small stockwater reservoir 0.1 mile upstream.)	5.03	1959-76	3- -76	5.94	42
09224800	Meadow Springs Wash tributary near Green River, WY	Lat 41°32'37", long 109°45'36", in SE¼NW¼ sec.18, T.18 N., R.109 W., Sweetwater County, at culvert on Interstate Highway 80 and 15 miles west of Green River. Prior to Oct. 1, 1970, 150 ft upstream at culvert on U.S. Highway 30.	5.22	1962-65, 1968-76	3- -76	1.73	38
09224810	Blacks Fork tributary No. 2 near Green River, WY	Lat 41°27'35", long 109°37'20", in SW¼SE¼ sec.8, T.17 N., R.108 W., Sweetwater County, 600 ft upstream from dirt road, 1.3 miles upstream from mouth, and 8.7 miles southwest of Green River.	12.0	1965-76	4- 6-76	7.11	180
09224820	Blacks Fork tributary No. 3 near Green River, WY	Lat 41°25'30", long 109°36'55", in SW¼NW¼ sec.28, T.17 N., R.108 W., Sweetwater County, 50 ft upstream from dirt road, 1 mile upstream from mouth, and 10.5 miles southwest of Green River.	3.59	1965-76	4- 6-76	6.22	27
09224840	Blacks Fork tributary No. 4 near Green River, WY	Lat 41°24'40", long 109°36'05", in SE¼NE¼ sec.33, T.17 N., R.108 W., Sweetwater County, 700 ft downstream from dirt road, 1 mile upstream from mouth, and 10.9 miles southwest of Green River.	1.26	1965-76	4- 6-76	5.02	6
c09224980	Summers Dry Creek near Green River, WY	Lat 41°22'25", long 109°38'40", in NW¼NE¼ sec.13, T.16 N., R.109 W., Sweetwater County, 600 ft downstream from Little Dry Creek, 1.6 miles upstream from mouth, and 14.2 miles southwest of Green River.	423	1965-76	9-22-76	8.04	1,040
09225200	Squaw Hollow near Burntfork, WY	Lat 41°10'14", long 109°36'34", in NE¼NW¼ sec.29, T.14 N., R.108 W., Sweetwater County, 0.1 mile downstream from culvert on State Highway 530, 2.1 miles upstream from normal pool level of Flaming Gorge Reservoir, and 22 miles northeast of Burntfork. Prior to Oct. 1, 1969, at site 0.1 mile upstream at different datum.	6.57	1965-76	5-22-76	12.51	55
c09225300	Green River tributary No. 2 near Burntfork, WY	Lat 41°03'40", long 109°37'05", in NE¼SE¼ sec.31, T.13 N., R.108 W., Sweetwater County, 200 ft downstream from State Highway 530, 7.4 miles northeast of Manila, Utah, and 20.6 miles east of Burntfork. Prior to Oct. 1, 1971, at site 300 ft upstream at datum 10.00 ft higher.	13.0	1959, 1961-76	7-25-76	14.00	1,310

See footnotes at end of table, p.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Green River basin--Continued					
c09258200	Dry Cow Creek near Baggs, WY	Lat 41°20'24", long 107°40'14", in SE¼SE¼ sec.19, T.16 N., R.91 W., Carbon County, 1.6 miles upstream from county road, 4.3 miles upstream from mouth, and 21 miles north of Baggs.	49.7	1970-76	3-25-76	9.01	560
		Bear River basin					
10019700	Whitney Canyon Creek near Evanston, WY	Lat 41°25'42", long 110°58'21", in SE¼NW¼ sec.27, T.17 N., R.120 W., Uinta County, at culvert on dirt road and 11.1 miles north of Evanston.	8.93	1965-76	4-25-76	5.33	26
		Hoback River basin					
13019220	Sour Moose Creek near Bondurant, WY	Lat 43°09'00", long 110°15'20", in N½ sec.26, T.37 N., R.112 W., Sublette County, Teton National Forest, at culvert on U.S. Highway 187 and 9.5 miles southeast of Bondurant.	e2.77	1964-76	5-28-76	5.55	18

† Discharge not determined.
a Backwater from ice & snow.
b Estimate.
c Water-quality data is published elsewhere in this report.
d Peak stage did not reach bottom of gage.
e Revised.

Discharge measurements made at miscellaneous sites during water year 1976

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Green River basin						
North Fork Little Muddy Creek	Little Muddy Creek	Lat 41°35'24", long 108°34'00", in SW¼SW¼NE¼ sec.31, T.19 N., R.116 W., Lincoln County, at bridge on county road, 0.5 mile upstream from mouth, 8.9 miles south of Glencoe, and 14.2 miles south of Kemmerer.			1-22-76 4-23-76	4.7 5.1
North Fork Little Snake River diversion to Hog Park Creek 09251750	Transbasin diversion between North Fork Little Snake River and Hog Park Creek	Lat 41°02'17", long 106°53'16", in NW¼SW¼ sec.6, T.12 N., R.84 W., Carbon County, below outlet, just upstream from Hog Park Creek, and 13 miles southwest of Encampment.		1966-75	10-23-75 6-11-76 7-22-76 8-19-76 9-17-76	1.5 56 6.6 2.1 1.5
Snake River main stem						
Snake River 13010070	Columbia River	Lat 44°05'57", long 110°40'00", Teton County, John D. Rockerfeller, Jr., Memorial Parkway, at bridge on U.S. Highways 89 and 287, 0.1 mile south of Flagg Ranch, and 14 miles north of Colter Bay Village.			6- 8-76 6-18-76 7-25-76	5,630 3,490 818
Polecat Creek basin						
Polecat Creek 13010170	Snake River	Lat 44°06'31", long 110°41'00", Teton County, John D. Rockerfeller, Jr., Memorial Parkway, 0.5 mile upstream from mouth, and 1.0 mile northwest of Flagg Ranch.		1973	6- 9-76 6-18-76	193 174
Pacific Creek basin						
Pacific Creek 13011500	Snake River	Lat 43°51'04", long 110°30'59", in SW¼NW¼ sec.23, T.45 N., R.114 W., Teton County, Grand Teton National Park, at former gaging station, 6 ft upstream from bridge on U.S. Highway 287, at Moran, and at mile 0.5.	169	1906‡ 1917-18‡ 1944-75‡	6-16-76	964
Spread Creek basin						
Spread Creek 13012500	Snake River	Lat 43°47'26", long 110°32'14", in NE¼NE¼SW¼ sec.9, T.44 N., R.114 W., Teton County, Grand Teton National Park, 200 ft upstream from bridge on U.S. Highways 26, 89, and 287, 1.7 miles upstream from mouth, and 3.9 miles south of Moran.	101	1917-18‡ 1971, 1973-74	6-12-76 6-20-76	335 218
Snake River main stem						
Snake River 13013650	Columbia River	Lat 43°39'15", long 110°42'52", in NW¼NW¼NE¼ sec.36, T.43 N., R.116 W., Teton County, Grand Teton National Park, at bridge on Teton Park Road, and 0.2 mile east of Moose.		1972-74	11- 5-75 6- 9-76 7-25-76	981 9,500 5,950
Gros Ventre River basin						
Gros Ventre River 13014300	Snake River	Lat 43°34'34", long 110°18'36", in SE¼SE¼NE¼ sec.29, T.42 N., R.112 W., Teton County, Teton National Forest, at bridge, 0.5 mile upstream from Devils Dip Creek, 0.5 mile downstream from Coal Mine Draw, 1.0 mile north of Goosewing guard station, and 16 miles east of Kelly.		1973	6-11-76 6-17-76	1,820 945

Discharge measurements made at miscellaneous sites during water year 1976

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Gros Ventre River basin--Continued				
Crystal Creek	Gros Ventre River	Lat 43°36'17", long 110°25'18", in SW¼SE¼NW¼ sec.16, T.42 N., R.113 W., Teton County, Teton National Forest, 0.8 mile upstream from mouth, 3.6 miles downstream from Shorty Creek, and 11 miles east of Kelly.			6-11-76	498
Gros Ventre River	Snake River	Lat 43°34'00", long 110°43'57", in NW¼NW¼NE¼ sec.35, T.42 N., R.116 E., Teton County, Grand Teton National Park, at bridge on U.S. Highways 26, 89, and 187, 3.7 miles upstream from mouth, 6.0 miles northeast of Jackson, and 7.0 miles southwest of Kelly.		1974	6-10-76 6-16-76	1,960 892
		Hoback River basin				
Hoback River	Snake River	Lat 43°19'12", long 110°43'42", Teton County, Teton National Forest, 0.1 mile southeast of Hoback Junction, 0.2 mile upstream from mouth, and 3.6 miles downstream from Camp Creek.			6-19-76	1,790

‡ Operated as a continuous-record gaging station.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

415445109485001 BUCKHORN CREEK AT LOWER FARSON CUTOFF, NEAR FARSON, WY (LAT 41 54 45 LONG 109 48 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR 24...	1600	E20	4200	6.0	44000	190	7	31	28

E Estimate.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR 24...	890	28	4.9	226	185	1500	260	.7	5.2

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 24...	2840	3.86	153	1.7	330	70	5390	291	100

421457109253901 BIG SANDY RIVER SPILLWAY AT BIG SANDY RESERVOIR, WY (LAT 42 14 57 LONG 109 25 39)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
JAN 29...	1715	560	.0

421449109252701 BIG SANDY RIVER BELOW SPILLWAY AT BIG SANDY RESERVOIR, WY (LAT 42 14 49 LONG 109 25 27)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
JAN 28...	1715	.40	520	.0

BENTHIC INVERTIBRATE ANALYSES

JAN. 28, 1976
1715 HOURS

IDENTIFICATION OF BENTHIC INVERTIBRATES

4 COUNT

_ORGANISM__NAME______________	_COMMON__NAME_______	COUNT
ARTHROPODA		
.INSECTA		
..DIPTERA		
...CHIRONOMIDAE	MIDGES	3
...SIMULIIDAE	BLACK FLIES	1

NOTE: ANALYSIS METHOD: SIEVE, DISSECTING MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
FAMILY 0.811

420548109272501 BIG SANDY RIVER ABOVE LITTLE SANDY CREEK, NEAR FARSON, WY (LAT 42 05 48 LONG 109 27 25)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)
JAN 28...	1300	2600	8.1	.0	2000

PERIPHYTON ANALYSES

JAN. 28, 1976
1300 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHLOROPHYTA	GREEN ALGAE
.CHLOROPHYCEAE	
..CHLOROCOCCALES	
...OOCYSTACEAE	
O ....ANKISTRODESMUS	
...SCENEDESMACEAE	
O ....SCENEDESMUS	
..CLADOPHORALES	
...CLADOPHORACEAE	
O ....CLADOPHORA	
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..CENTRALES	CENTRIC
...COSCINODISCACEAE	
O ....CYCLOTELLA	
O ....MELOSIRA	
..PENNALES	PENNATE
...ACHNANTHACEAE	
O ....ACHNANTHES	
O ....COCCONEIS	
...CYMBELLACEAE	
O ....CYMBELLA	
O ....EPITHEMIA	
...DIATOMACEAE	
O ....DIATOMA	
...FRAGILARIACEAE	
E ....FRAGILARIA	
O ....SYNEDRA	
...GOMPHONEMATACEAE	
E ....GOMPHONEMA	
...NAVICULACEAE	NAVICULOID
O ....AMPHIPRORA	
O ....CALONEIS	
O ....FRUSTULIA	
O ....GYROSIGMA	
E ....NAVICULA	
O ....PINNULARIA	
...NITZSCHIACEAE	
O ....NITZSCHIA	
...SURIRELLACEAE	
O ....CYMATOPLEURA	
O ....SURIRELLA	
...ACHNANTHACEAE	
O ....RHOICOSPHENIA	
CYANOPHYTA	BLUE-GREEN ALGAE
.MYXOPHYCEAE	
..OSCILLATORIALES	FILAMENTOUS
...OSCILLATORIACEAE	
O ....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

GREEN RIVER BASIN

420548109272501 BIG SANDY RIVER ABOVE LITTLE SANDY CREEK, NEAR FARSON, WY (LAT 42 05 48 LONG 109 27 28)

PHYTOPLANKTON ANALYSES

JAN. 28, 1976
1300 HOURS

IDENTIFICATION OF PHYTOPLANKTON

2,000 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		66	3
	..PENNALES	PENNATE		
	...ACHNANTAHCEAE			
D	....ACHNANTHES		400	20
	....RHOIOCOSPHENIA		33	2
	...CYMBELLACEAE			
	....AMPHORA		33	2
	....CYMBELLA		200	10
L	....EPITHEMIA			0
	...DIATOMACEAE			
L	....DIATOMA			0
	...FRAGILARIACEAE			
	....SYNEDRA		33	2
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		200	10
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		790	39
	....PINNULARIA		33	2
	...NITZSCHIACEAE			
	....NITZSCHIA		130	7
	...SURIRELLACEAE			
	....SURIRELLA		99	5

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
ORDER 0.208
FAMILY 2.421
GENERA 2.671

421200109124001 NORTH PACIFIC CREEK NEAR FARSON, WY (LAT 42 12 00 LONG 109 12 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
APR				
07...	1615	E.50	60	11.0

E Estimate.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

421140109124001 PACIFIC CREEK ABOVE JACK MORROW CREEK, NEAR FARSON, WY (LAT 42 11 40 LONG 109 12 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR									
07...	1530	35	410	.5	220	42	0	10	4.1
08...	1045	E80	360	.0	--	--	--	--	--
10...	1110	E140	425	3.5	800	43	0	11	3.8
12...	1010	E300	330	7.0	500	52	0	8.5	7.4

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR									
07...	71	4.8	2.6	148	121	78	4.9	.3	8.5
08...	--	--	--	--	--	--	--	--	--
10...	72	4.8	2.5	137	112	85	3.6	.3	6.3
12...	58	3.0	2.3	117	96	59	3.1	.3	5.7

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR									
07...	254	.35	24.0	.15	80	850	476	45	98
08...	--	--	--	--	--	--	922	199	98
10...	252	.34	95.3	.00	50	100	1510	571	98
12...	194	.26	157	.01	60	70	--	--	--

420205108551001 JACK MORROW CREEK NEAR STEAMBOAT MOUNTAIN, NEAR FARSON, WY (LAT 42 02 05 LONG 108 55 10)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR										
08...	1740	E4.0	1480	8.0	1.0	25	540	250	54	98
10...	0910	1.5	1475	--	2.0	7	500	190	58	87
12...	1720	E2.0	970	--	3.0	3	380	110	47	64

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR										
08...	130	2.4	8.6	348	0	285	510	13	.4	12
10...	120	2.3	7.5	387	--	317	440	12	.5	12
12...	79	1.8	5.9	327	--	268	270	7.0	.4	11

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR									
08...	998	1.36	10.8	.00	120	120	120	1.3	76
10...	920	1.26	3.76	.00	150	110	52	.21	60
12...	646	.88	3.49	.01	110	70	81	.44	45

E Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

420630108584001 JACK MORROW CREEK ABOVE PARNELL CREEK, NEAR FARSON, WY (LAT 42 06 30 LONG 108 58 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR										
08...	1800	E5.0	1300	8.0	9.5	500	480	230	65	77
10...	0920	.50	1100	--	2.5	350	370	160	56	55

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR										
08...	120	2.4	8.5	304	0	249	450	11	.4	8.4
10...	91	2.1	5.5	247	--	203	340	8.9	.4	7.8

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR									
08...	890	1.21	12.0	.01	100	70	852	12	100
10...	687	.93	.93	.06	100	60	616	.83	99

420630108584002 PARNELL CREEK AT MOUTH, NEAR FARSON, WY (LAT 42 06 30 LONG 108 58 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR										
08...	1800	E4.0	680	7.8	6.5	1200	100	0	22	11
10...	0920	2.0	625	--	1.5	500	100	0	22	11
12...	1735	E4.0	580	--	7.0	600	110	0	23	12

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR										
08...	96	4.2	4.0	147	0	121	180	3.6	.2	6.1
10...	81	3.5	3.4	141	--	116	170	2.9	.3	5.9
12...	95	4.0	3.9	149	--	122	190	2.8	.3	6.1

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR									
08...	396	.54	4.28	.08	70	120	2060	22	100
10...	367	.50	1.98	.07	80	120	1110	6.0	98
12...	407	.55	--	.00	100	100	1390	15	99

E Estimate.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

420650108594001 ROCK CABIN CREEK AT MOUTH, NEAR FARSON, WY (LAT 42 06 50 LONG 108 59 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR										
08...	1815	E15	1480	8.4	.0	250	200	0	22	36
10...	0945	E8.0	1800	--	1.0	120	180	0	21	30
12...	1745	E7.8	1480	--	5.0	180	160	0	22	26

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR										
08...	380	12	8.0	315	0	258	750	13	.3	5.4
10...	320	11	7.9	327	--	268	580	13	.4	6.2
12...	240	8.2	5.1	291	--	239	420	8.7	.4	5.8

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR									
08...	1370	1.86	55.5	.02	180	210	722	29	94
10...	1140	1.55	24.6	.00	230	250	226	4.9	93
12...	872	1.19	18.4	.00	170	280	429	9.0	94

421040109140001 JACK MORROW CREEK AT MOUTH, NEAR FARSON, WY (LAT 42 10 40 LONG 109 14 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR										
07...	1400	E18	1700	--	3.5	800	220	26	33	34
08...	1830	E14	2200	8.3	.5	500	260	24	37	41
10...	1045	20	1500	--	4.5	1100	200	2	30	30
12...	1800	E23	1480	--	6.5	1200	200	0	30	30

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR										
07...	270	7.9	5.2	240	--	197	580	11	.4	4.5
08...	290	7.8	5.9	289	0	237	650	14	.4	6.2
10...	250	7.7	5.1	239	--	196	510	9.6	.4	5.9
12...	240	7.4	5.0	271	--	222	480	11	.4	6.3

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR									
07...	1060	1.44	51.5	.02	180	90	1740	85	100
08...	1190	1.62	45.0	.00	160	100	956	36	100
10...	959	1.30	52.0	.07	170	80	2050	113	99
12...	937	1.27	58.2	.00	170	80	2780	173	99

E Estimate.

GREEN RIVER BASIN

420545109272001 LITTLE SANDY CREEK NEAR MOUTH, NEAR FARSON, WY (LAT 42 05 45 LONG 109 27 20)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL PHYTOPLANKTON (CELLS PER ML)
JAN 28...	1130	3100	7.9	.0	340

PERIPHYTON ANALYSES

JAN. 28, 1976
1130 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...DIATOMACEAE	
O	....DIATOMA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
E	....SURIRELLA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

JAN. 28, 1976
1130 HOURS

IDENTIFICATION OF PHYTOPLANKTON

340 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OCCYSTACEAE			
L	....ANKISTRODESMUS			0
	...SCENEDESMACEAE			
L	....SCENEDESMUS			0
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		6	2
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..CENTRALES	CENTRIC		
	...COSCINODISCACEAE			
	....CYCLOTELLA		12	3
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		17	5
	....COCCONEIS		6	2
	...CYMBELLACEAE			
	....CYMBELLA		17	5
	...DIATOMACEAE			
L	....DIATOMA			0
	...GOMPHONEMATACEAE			
D	....GOMPHONEMA		64	19
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		87	25
	...NITZSCHIACEAE			
	....NITZSCHIA		46	14
	...SURIRELLACEAE			
D	....SURIRELLA		87	25

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:

PHYL/DIV	0.124
CLASS	0.124
ORDER	0.337
FAMILY	2.594
GENERA	2.649

GREEN RIVER BASIN

420545109272001 LITTLE SANDY CREEK NEAR MOUTH, NEAR FARSON, WY (LAT 42 05 45 LONG 109 27 20)

BENTHIC INVERTIBRATE ANALYSES

JAN. 28, 1976
1130 HOURS

IDENTIFICATION OF BENTHIC INVERTIBRATES

2 COUNT

ORGANISM NAME	COMMON NAME	COUNT
ARTHROPODA		
.INSECTA		
..COLEOPTERA	BEETLES	
...DYTISCIDAE	PREDACEOUS DIVING	2

NOTE: ANALYSIS METHOD: OTHER, DISSECTING MICROSCOPE

421630108402001 RED CREEK NEAR THE DIVIDE, WY (LAT 42 16 30 LONG 108 40 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
MAR 31...	1645	.30	350	.0	5600

421630108402002 RED CREEK FIRST ORDER TRIBUTARY NEAR THE DIVIDE, WY (LAT 42 16 30 LONG 108 40 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
MAR 31...	1650	.02	225	.0	2800

421630108402003 RED CREEK FIRST ORDER TRIBUTARY NO 2 NEAR THE DIVIDE, WY (LAT 42 16 30 LONG 108 40 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
MAR 31...	1700	.01	550	1.0	450

421403108273001 RED CREEK AT CYCLONE RIM, WY (LAT 42 14 03 LONG 108 27 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA+MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR 02...	0915	E3.0	200	7.8	.0	550	34	0	10	2.3

E Estimate.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR 02...	28	2.1	2.1	92	75	17	2.8	.2	4.0

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR 02...	113	.15	.92	.13	40	170	1020	8.3	95

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

421300108292001 RED CREEK ABOVE KINCH MCKINNEY SPRING, WY (LAT 42 13 00 LONG 108 29 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR 31...	1630	30	380	--	1.0	3200	--	--	--	--
APR 01...	1040	9.6	530	7.9	.0	420	93	15	30	4.3

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR 31...	--	--	--	--	--	--	--	--	--
APR 01...	72	3.3	3.1	95	78	160	2.3	.2	5.4

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 31...	--	--	--	--	--	--	--	--	--
APR 01...	325	.44	8.42	.18	0	10	2430	63	64

420915108250002 RED CREEK NEAR FIVE FINGERS BUTTE, WY (LAT 42 02 15 LONG 108 25 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR 31...	1610	E12	360	--	.5	2000	--	--	--	--
APR 01...	0920	9.6	335	8.1	--	1100	34	0	11	1.6
02...	1000	E15	335	--	.0	2200	--	--	--	--
10...	1215	E20	290	--	5.5	--	--	--	--	--

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR 31...	--	--	--	--	--	--	--	--	--
APR 01...	58	4.3	2.2	120	98	61	2.3	.2	5.2
02...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 31...	--	--	--	--	--	--	--	--	--
APR 01...	201	.27	5.21	.00	10	10	1830	47	100
02...	--	--	--	--	--	--	4750	192	100
10...	--	--	--	--	--	--	3300	178	100

E Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

420915108250001 RED CREEK TRIBUTARY NEAR FIVE FINGERS BUTTE, WY (LAT 42 09 15 LONG 108 25 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR										
31...	1600	.50	120	--	.0	--	--	--	--	--
APR										
01...	0920	E.05	128	8.2	.0	65	42	0	14	1.8
02...	1000	E.05	65	--	.0	--	--	--	--	--

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR									
31...	--	--	--	--	--	--	--	--	--
APR									
01...	7.1	.5	2.1	70	57	3.3	1.1	.1	3.1
02...	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR									
31...	--	--	--	--	--	--	--	--	--
APR									
01...	67	.09	.01	.01	0	20	52	.01	93
02...	--	--	--	--	--	--	--	--	--

420823108220901 RED CREEK AT ROCKY CROSSING, WY (LAT 42 08 23 LONG 108 22 09)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR										
25...	1415	E19	270	8.6	.0	600	31	0	9.1	1.9
31...	1500	E6.0	--	--	5.0	450	--	--	--	--
31...	1530	E6.0	370	8.3	5.0	600	50	0	16	2.4
APR										
01...	0935	7.0	395	7.2	.0	700	46	0	15	2.0
10...	1415	8.2	315	--	9.0	1500	47	0	14	2.8
11...	1145	E7.0	305	--	5.5	1100	68	0	14	8.0

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR									
25...	46	3.6	1.8	112	92	36	2.3	.3	4.7
31...	--	--	--	--	--	--	--	--	--
31...	56	3.5	2.2	128	105	60	2.2	.2	5.7
APR									
01...	60	3.9	2.2	125	103	73	2.3	.2	5.6
10...	48	3.1	2.4	123	101	56	2.4	.3	5.0
11...	42	2.2	2.2	122	100	51	2.2	.2	4.8

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR									
25...	158	.21	8.11	.06	40	110	1450	74	99
31...	--	--	--	--	--	--	--	--	--
31...	209	.28	3.39	.15	0	60	--	--	--
APR									
01...	222	.30	4.20	.09	0	10	1040	20	99
10...	193	.26	4.27	.20	40	140	--	--	--
11...	185	.25	3.50	.08	40	30	2940	56	99

E Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

420823108220902 RED CREEK TRIBUTARY AT ROCKY CROSSING, WY (LAT 42 08 23 LONG 108 22 09)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR 25...	1400	.44	260	8.0	4.0	450	35	0	12	1.1

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR 25...	40	3.0	2.0	146	120	6.3	2.3	.4	7.9

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 25...	144	.20	.17	.00	70	180	616	.73	95

421020108330002 NORTH FORK BEAR CREEK AT MOUTH, NEAR BRANNEN RESERVOIR, WY (LAT 42 10 20 LONG 108 33 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
APR 01...	1100	E1.0	262	550	30	0	8.5	2.2	43

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
APR 01...	3.4	1.3	100	82	42	2.4	.1	4.3	153

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR 01...	.21	.41	.03	0	40	1500	4.1	98

E Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

421020108330001 BEAR CREEK ABOVE NORTH FORK BEAR CREEK, NEAR BRANNEN RESERVOIR, WY (LAT 42 102 01 LONG 108 33 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR									
01...	1110	E4.0	292	.0	--	20	0	6.2	1.2
10...	1200	E.04	415	17.0	1200	49	0	15	2.9

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR									
01...	55	5.3	1.4	113	93	43	3.1	.2	5.8
10...	67	4.1	2.1	114	94	100	1.9	.3	6.0

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR									
01...	172	.23	1.86	.00	6	150	8960	97	91
10...	253	.34	.03	.34	30	30	3030	.33	99

421015108363001 BEAR CREEK NEAR HONEYCOMB BUTTE, WY (LAT 42 10 15 LONG 108 36 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
APR									
01...	1110	E1.5	325	.0	24	0	7.3	1.3	63

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
APR									
01...	5.6	2.0	128	105	58	2.5	.3	6.4	205

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR								
01...	.28	.83	.20	10	190	6440	26	92

E Estimate.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

420438108183001 BUSH CREEK AT MOUTH, NEAR BUSH LAKE, WY (LAT 42 04 38 LONG 108 18 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 31...	1545	E1.5	520	8.0	270	470	1.9	99

420225108183201 RED CREEK ABOVE HAY RESERVOIR, WY (LAT 42 02 25 LONG 108 18 32)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR 25...	1115	E20	295	8.6	.0	--	64	0	19	3.9
31...	1515	E4.0	420	8.3	5.5	450	--	--	--	--
APR 01...	0925	8.0	440	7.2	.0	600	51	0	16	2.6

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR 25...	59	3.2	2.0	128	105	70	7.5	.3	5.8
31...	--	--	--	--	--	--	--	--	--
APR 01...	59	3.6	2.4	130	107	70	2.5	.2	5.8

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 25...	239	.33	12.9	.12	50	140	--	--	--
31...	--	--	--	--	--	--	818	8.8	100
APR 01...	223	.30	4.82	.11	0	130	1020	22	94

420128108191201 HAY RESERVOIR NEAR RED DESERT, WY (LAT 42 01 28 LONG 108 19 12)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
MAR 25...	1045	1020	8.6	.0	20	0	5.7	1.5	220	21	3.5

DATE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
MAR 25...	274	225	230	20	1.1	6.5	634	.86	2.4	110	250

E Estimate.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

421440108035001 LOST CREEK TRIBUTARY ABOVE ARAPAHOE CREEK, NEAR BAIROIL, WY (LAT 42 14 40 LONG 10803 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR 01...	1510	5.0	62	7.1	.0	300	12	0	2.8	1.1

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR 01...	8.3	1.1	3.0	31	0	25	5.1	2.6	.1	2.5

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR 01...	41	.06	.55	.00	40	310	762	10	86

421438108035001 LOST CREEK ABOVE ARAPAHOE CREEK, NEAR BAIROIL, WY (LAT 42 14 38 LONG 108 03 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR 01...	1515	2.0	135	7.1	.0	240	18	0	4.8	1.4

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR 01...	20	2.1	2.5	42	0	34	24	2.0	.1	1.9

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR 01...	79	.11	.43	.07	0	90	369	2.0	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

421310108051501 LOST CREEK BELOW ARAPAHOE CREEK, NEAR BAIROIL, WY (LAT 42 13 10 LONG 108 05 15)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR 25...	1230	E.50	75	--	.0	--	--	--	--	--
APR 01...	1445	21	130	7.8	.5	360	20	0	5.7	1.3

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR 25...	--	--	--	--	--	--	--	--	--	--
APR 01...	18	1.8	2.5	47	0	39	20	3.0	.1	2.6

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 25...	--	--	--	--	--	--	--	--	--
APR 01...	77	.10	4.37	.00	6	190	680	39	98

421300108062801 LOST CREEK TRIBUTARY ABOVE BIG BEND, NEAR BAIROIL, WY (LAT 42 13 00 LONG 108 06 28)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR 01...	1415	.20	130	7.7	5.0	145	34	0	11	1.7

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR 01...	7.4	.5	4.4	59	0	48	4.7	1.3	.1	5.6

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR 01...	65	.09	.04	.00	10	40	312	.17	98

E Estimate.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN
421255108062001 LOST CREEK ABOVE BIG BEND, NEAR BAIROIL, WY (LAT 42 12 55 LONG 108 06 20)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
APR										
01...	1415	.10	130	8.0	2.0	75	--	--	36	0
01...	1600	22	140	7.6	.0	--	--	--	26	0
02...	1045	11	100	8.1	.0	350	--	--	19	0
07...	1345	E12	370	7.6	5.0	240	--	--	49	0
10...	1330	19	210	--	11.0	250	--	--	42	0
11...	1055	E12	300	--	9.0	180	--	--	39	0
MAY										
19...	1330	E.50	500	9.1	19.5	--	13.0	--	--	--
AUG										
25...	1500	--	860	8.7	22.0	30	13.1	5.6	130	0

E Estimate.

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
APR										
01...	11	2.1	12	.9	2.8	71	0	58	7.6	1.8
01...	7.0	2.0	20	1.7	2.5	60	0	49	23	2.8
02...	5.6	1.3	15	1.5	2.2	43	--	35	14	2.1
07...	14	3.5	42	2.6	2.5	64	--	53	87	3.9
10...	12	2.9	34	2.3	2.4	71	--	58	56	3.8
11...	11	2.8	34	2.4	2.5	65	--	53	59	4.3
MAY										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
25...	45	5.1	160	6.0	4.8	176	0	144	300	18

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
APR										
01...	.1	3.6	77	.10	.02	--	.21	--	--	--
01...	.1	2.4	90	.12	5.35	--	.01	--	--	--
02...	.1	2.5	64	.09	1.90	--	.04	--	--	--
07...	.1	2.7	188	.26	6.09	--	.04	--	--	--
10...	.1	2.7	150	.20	7.70	--	.15	--	--	--
11...	.1	2.7	149	.20	4.83	--	.02	--	--	--
MAY										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
25...	.4	16	636	.87	--	.01	.01	.00	.00	.51

DATE	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED-PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
APR										
01...	--	--	--	--	--	--	--	--	0	440
01...	--	--	--	--	--	--	--	--	0	410
02...	--	--	--	--	--	--	--	--	0	210
07...	--	--	--	--	--	--	--	--	40	250
10...	--	--	--	--	--	--	--	--	40	310
11...	--	--	--	--	--	--	--	--	40	140
MAY										
19...	--	--	--	--	--	--	--	--	--	--
AUG										
25...	.39	.51	.39	.52	.03	.02	.01	.03	70	100

DATE	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)
APR									
01...	--	--	--	103	.03	96	--	--	--
01...	--	--	--	2060	122	26	--	--	--
02...	--	--	--	602	18	96	--	--	--
07...	--	--	--	318	10	99	--	--	--
10...	--	--	--	444	23	97	--	--	--
11...	--	--	--	351	11	73	--	--	--
MAY									
19...	--	--	--	--	--	--	--	--	--
AUG									
25...	100	6800	41	--	--	--	3403	.100	.000

GREEN RIVER BASIN

421255108062001 LOST CREEK ABOVE BIG BEND, NEAR BAIROIL, WY (LAT 42 12 55 LONG 108 06 20)

PERIPHYTON ANALYSES
AUG. 25, 1976
1500 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
	...ZYGNEMATACEAE	
O	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
E	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....NOSTOC	
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....TRACHELOMONAS	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

DATE	AUG 25,76
TIME	1500
TOTAL CELLS/ML	6800
DIVERSITY: DIVISION	1.2
.CLASS	1.2
..ORDER	1.2
...FAMILY	1.4
....GENUS	1.4

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	79	1
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....NAVICULA	240	4
...NITZSCHIACEAE		
....NITZSCHIA	79	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	4300#	64
EUGLENOPHYTA (EUGLENOIDS)		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOCHRYSIDACEAE		
....CHROOMONAS	1700#	26
...CRYPTOMONODACEAE		
....CRYPTOMONAS	320	5

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

420848108070001 LOST CREEK AT GOODFORD CROSSING, NEAR BAIROIL, WY (LAT 42 08 48 LONG 108 07 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
MAR										
25...	1200	E3.0	595	8.0	.0	50	--	120	13	39
APR										
01...	1400	2.5	600	8.3	7.0	50	--	130	16	41
02...	1115	E15	200	--	2.0	430	--	38	0	12
07...	1415	E12	375	7.3	5.0	240	--	62	0	18
11...	1045	E14	365	--	7.0	220	--	61	0	18
MAY										
19...	1130	E3.0	660	8.8	19.5	3	12.0	160	9	54
19...	1135	--	660	--	--	--	--	--	--	--

E Estimate.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
MAR										
25...	6.4	73	2.9	4.8	135	--	111	150	13	.2
APR										
01...	6.1	69	2.7	4.1	136	0	112	150	12	.2
02...	2.0	24	1.7	3.1	92	--	75	37	3.8	.2
07...	4.2	46	2.5	2.9	79	--	65	93	4.8	.1
11...	3.9	47	2.6	2.6	101	--	83	75	6.3	.2
MAY										
19...	7.0	76	2.6	4.9	189	--	155	120	16	.3
19...	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR										
25...	11	--	364	.50	2.95	--	.00	126	1.0	90
APR										
01...	12	--	362	.49	2.44	--	.06	152	1.0	80
02...	4.5	--	132	.18	5.35	--	.06	1000	41	92
07...	3.5	--	212	.29	6.87	--	.06	584	19	81
11...	4.1	--	207	.28	7.82	--	.02	--	--	--
MAY										
19...	13	360	384	.52	3.11	18	--	14	.11	74
19...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	TOTAL BORON (B) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)
MAR									
25...	1200	--	--	--	--	--	50	--	--
APR									
01...	1400	--	--	--	--	--	10	--	--
02...	1115	--	--	--	--	--	60	--	--
07...	1415	--	--	--	--	--	50	--	--
11...	1045	--	--	--	--	--	40	--	--
MAY									
19...	1130	--	--	--	--	--	60	--	--
19...	1135	1100	40	<3	<8	40	--	0	<8

DATE	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL GALLIUM (GA) (UG/L)	TOTAL GERMANIUM (GE) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
MAR									
25...	--	--	--	--	--	80	--	--	--
APR									
01...	--	--	--	--	--	70	--	--	--
02...	--	--	--	--	--	80	--	--	--
07...	--	--	--	--	--	260	--	--	--
11...	--	--	--	--	--	150	--	--	--
MAY									
19...	--	--	--	--	--	10	--	--	--
19...	<8	2	<3	<8	460	--	<8	20	10

DATE	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRONTIUM (SR) (UG/L)	TOTAL TIN (SN) (UG/L)	TOTAL TITANIUM (TI) (UG/L)	TOTAL VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZIRCONIUM (ZR) (UG/L)
MAR									
25...	--	--	--	--	--	--	--	--	--
APR									
01...	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
MAY									
19...	--	--	--	--	--	--	--	--	--
19...	4	<8	<1	530	<8	40	<8.0	10	<10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

420848108070001 LOST CREEK AT GOODFORD CROSSING, NEAR BAIROIL, WY (LAT 42 08 48 LONG 108 07 00)

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)
MAY									
19...	1130	<5.9	<.5	9.6	.8	7.6	.7	.09	1.8

420604108070701 LOST CREEK ABOVE EAGLES NEST SPRING, NEAR BAIROIL, WY (LAT 42 06 04 LONG 108 07 07)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR								
02...	1200	E12	320	2.0	450	1020	33	96

420425108073001 LOST CREEK BELOW EAGLES NEST SPRING, NEAR BAIROIL, WY (LAT 42 04 25 LONG 108 07 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
APR									
02...	1130	E3.0	610	4.0	120	0	35	7.5	84

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
APR									
02...	3.4	5.2	162	133	160	15	.2	10	398

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR								
02...	.54	3.22	.17	60	60	1620	13	98

420045108111001 LOST CREEK ABOVE LOST CREEK LAKE, WY (LAT 42 00 45 LONG 108 11 10)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
APR												
11...	1030	E15	660	6.0	280	59	0	18	3.5	42	2.4	2.8

DATE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
APR												
11...	92	75	73	4.8	.1	4.0	194	.26	7.86	.04	60	110

E Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

421345107383201 LOST SOLDIER CREEK NEAR TWIN BUTTES, WY (LAT 42 13 45 LONG 107 38 32)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
APR								
06...	1530	E.20	250	7.8	.5	25	100	0

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
APR									
06...	31	5.4	9.6	.4	2.2	125	103	8.3	5.3

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
APR								
06...	.2	20	145	.20	.08	.15	50	390

421322107331801 LOST SOLDIER CREEK NEAR BAIROIL, WY (LAT 42 13 22 LONG 107 33 18)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR										
06...	1600	E1.5	550	7.8	.0	60	200	68	58	14
12...	0930	E4.0	550	--	3.5	200	170	67	44	14

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR									
06...	42	1.3	3.9	164	135	130	14	.2	11
12...	36	1.2	3.7	123	101	130	9.3	.2	7.9

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR									
06...	354	.48	1.43	.01	60	20	218	.88	66
12...	306	.42	3.30	.15	10	40	1530	17	56

E Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

421200107285001 LOST SOLDIER CREEK NEAR LOST SOLDIER LAKE, WY (LAT 42 12 00 LONG 107 28 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR									
06...	1650	E3.0	2200	3.5	1200	260	54	68	22
12...	0900	E3.8	780	8.0	600	180	9	46	16

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
APR									
06...	310	8.4	24	252	207	300	300	.7	13
12...	72	2.3	8.3	209	171	120	45	.4	12

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR									
06...	1160	1.58	9.40	.07	1100	30	6960	56	80
12...	423	.58	4.34	.00	220	40	4480	46	56

420925107262601 SAND SPRINGS CREEK NEAR LAMONT, WY (LAT 42 09 25 LONG 107 26 26)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)
APR												
06...	1730	E.40	2500	4.5	60	290	86	73	26	390	10	32

DATE	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
APR												
06...	248	203	460	320	.8	12	1440	1.96	1.56	.01	1300	650

421117107265801 SAND SPRINGS CREEK TRIBUTARY NEAR LAMONT, WY (LAT 42 11 17 LONG 107 26 58)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR					
06...	1715	E3.0	2300	7.8	5.0

E Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413507107255601 SEPARATION CREEK 6 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 35 07 LONG 107 25 56)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAR 29...	1300	E.05	580	7.3	7.0	--	--	--	320	84	74	34
MAY 12...	0945	4.0	175	7.3	3.5	--	--	--	87	24	21	8.5
JUL 01...	0940	E.64	310	7.8	15.0	4	8.4	--	160	30	37	17
SEP 02...	1130	.19	410	8.6	15.0	20	8.6	3.9	210	79	35	30

E Estimate.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
MAR 29...	7.7	.2	2.0	294	0	241	87	4.3	.2	6.6	440	361
MAY 12...	4.3	.2	2.0	77	0	63	29	2.1	.1	6.3	--	112
JUL 01...	4.0	.1	2.1	162	0	133	38	2.1	.2	8.7	--	189
SEP 02...	9.2	.3	1.1	134	13	132	90	4.3	.3	1.7	--	251

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DIS. HYDROLYZABLE PHOSPHORUS (P) (MG/L)
MAR 29...	.49	.05	2	.00	.00	--	--	--	.00	.00	.02
MAY 12...	.15	1.21	--	.08	.02	--	--	.02	.01	.03	--
JUL 01...	.26	.33	--	.03	.15	--	--	.04	.02	.06	--
SEP 02...	.34	.13	--	.04	.00	.88	.88	.05	.02	.06	--

DATE	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO SPECT. (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO SPECT. (UG/L)
MAR 29...	20	0	--	570	.0	--	--	--	--	--	--
MAY 12...	30	110	--	160	3.2	--	--	--	--	--	--
JUL 01...	30	10	--	--	--	12	.02	80	--	--	--
SEP 02...	80	40	150	7100	19	88	.05	75	4.00	2.22	.400

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (U) (UG/L)
MAR 29...	1300	<4.9	<.4	4.6	.6	3.6	.6	.10	2.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413507107255601 SEPARATION CREEK 6 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 35 07 LONG 107 25 56)

PERIPHYTON ANALYSES

MAR. 29, 1976
1300 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTHRICHALES	
	...ULOTRICHACEAE	
O	....ULOTHRIX	
	..ZYGNEMATALES	
	...ZYGNEMATACEAE	
E	....MOUGEOTIA	
E	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
O	....EPITHEMIA	
	...FRAGILARIACEAE	
F	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...MERIDIONACEAE	
O	....MERIDION	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
O	....NAVICULA	
O	....PINNULARIA	
O	....STAURONEIS	
	...NITZSCHIACEAE	
O	....HANTZSCHIA	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....CYMATOPLEURA	
O	....SURIRELLA	
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
	..HETEROTRICHALES	
	...TRIBONEMATACEAE	
O	....TRIBONEMA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....EUGLENA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

413507107255601 SEPARATION CREEK 6 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 35 07 LONG 107 25 56)

PERIPHYTON ANALYSES

MAY 12, 1976
0945 HOURS

IDENTIFICATION OF PERIPHYTON

```
 _ORGANISM__NAME_______________   _COMMON__NAME______
  CHRYSOPHYTA
  .BACILLARIOPHYCEAE              DIATOMS
  ..PENNALES                      PENNATE
  ...ACHNANTHACEAE
O ....ACHNANTHES
O ....COCCONEIS
  ...CYMBELLACEAE
O ....CYMBELLA
O ....EPITHEMIA
O ....RHOPALODIA
  ...FRAGILARIACEAE
E ....FRAGILARIA
O ....SYNEDRA
  ...GOMPHONEMATACEAE
O ....GOMPHONEMA
  ...MERIDIONACEAE
E ....MERIDION
  ...NAVICULACEAE                 NAVICULOID
O ....GYROSIGMA
O ....NAVICULA
O ....PINNULARIA
O ....STAURONEIS
  ...NITZSCHIACEAE
O ....HANTZSCHIA
O ....NITZSCHIA
  ...SURIRELLACEAE
O ....CYMATOPLEURA
O ....SURIRELLA
  .XANTHOPHYCEAE                  YELLOW-GREEN ALGAE
  ..HETEROTRICHALES
  ...TRIBONEMATACEAE
O ....TRIBONEMA
  CYANOPHYTA                      BLUE-GREEN ALGAE
  .MYXOPHYCEAE
  ..OSCILLATORIALES               FILAMENTOUS
  ...OSCILLATORIACEAE
O ....OSCILLATORIA
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SEP. 2, 1976
1130 HOURS

IDENTIFICATION OF PERIPHYTON

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 _ORGANISM__NAME_______________   _COMMON__NAME______
  CHLOROPHYTA                     GREEN ALGAE
  .CHLOROPHYCEAE
  ..CHLOROCOCCALES
  ...CHARACIACEAE
O ....CHARACIUM
  ...OOCYSTACEAE
O ....TETRAEDRON
  ...SCENEDESMACEAE
O ....SCENEDESMUS
  ..CLADOPHORALES
  ...CLADOPHORACEAE
O ....CLADOPHORA
  ..ZYGNEMATALES
  ...DESMIDIACEAE                 PLACODERM DESMIDS
O ....CLOSTERIUM
O ....COSMARIUM
  CHRYSOPHYTA
  .BACILLARIOPHYCEAE              DIATOMS
  ..PENNALES                      PENNATE
  ...ACHNANTHACEAE
O ....ACHNANTHES
O ....COCCONEIS
O ....RHOICOSPHENIA
  ...CYMBELLACEAE
O ....AMPHORA
O ....EPITHEMIA
O ....RHOPALODIA
  ...FRAGILARIACEAE
O ....FRAGILARIA
O ....SYNEDRA
  ...GOMPHONEMATACEAE
O ....GOMPHONEMA
  ...NAVICULACEAE                 NAVICULOID
O ....CALONEIS
O ....GYROSIGMA
O ....NAVICULA
O ....PINNULARIA
O ....STAURONEIS
  ...NITZSCHIACEAE
O ....NITZSCHIA
  ...SURIRELLACEAE
O ....CYMATOPLEURA
  CYANOPHYTA                      BLUE-GREEN ALGAE
  .MYXOPHYCEAE
  ..OSCILLATORIALES               FILAMENTOUS
  ...NOSTOCACEAE
E ....ANABAENA
  ...OSCILLATORIACEAE
E ....LYNGBYA
O ....OSCILLATORIA
NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
      O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
      ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE
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GREEN RIVER BASIN

413507107255601 SEPARATION CREEK 6 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 35 07 LONG 107 25 56)

PHYTOPLANKTON ANALYSES

DATE	MAR 29,76	MAY 12,76	SEP 2,76
TIME	1300	0945	1130
TOTAL CELLS/ML	570	160	7100
DIVERSITY: DIVISION	0.2	0.5	0.9
.CLASS	0.2	0.5	0.9
..ORDER	0.2	0.5	0.9
...FAMILY	0.2	0.6	1.0
....GENUS	1.4	2.7	1.2
	1.4	2.7	1.3

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	11	7	--	-
...SCENEDESMACEAE						
....SCENEDESMUS	--	-	--	-	310	5
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	9	2	5	4	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	--	-	--	-	38	1
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	18	4	5	4	--	-
...CYMBELLACEAE						
....AMPHORA	*	0	--	-	--	-
....EPITHEMIA	--	-	--	-	190	3
...DIATOMACEAE						
....DIATOMA	--	-	5	4	150	3
...EUNOTIACEAE						
....EUNOTIA	--	-	*	0	--	-
...FRAGILARIACEAE						
....FRAGILARIA	55	10	--	-	--	-
....SYNEDRA	37	7	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	27#	18	--	-
...MERIDIONACEAE						
....MERIDION	*	0	49#	32	--	-
...NAVICULACEAE						
....GYROSIGMA	--	-	--	-	120	2
....NAVICULA	46	9	16	11	270	4
....STAURONEIS	--	-	--	-	77	2
...NITZSCHIACEAE						
....NITZSCHIA	400#	70	33#	21	38	1
...SURIRELLACEAE						
....SURIRELLA	--	-	5	4	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.MYXOPHYCEAE						
..OSCILLATORIALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	5700#	81
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	9	2	--	-	--	-
....TRACHELOMONAS	--	-	--	-	150	3

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413349107272901 SEPARATION CREEK 8 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 33 49 LONG 107 27 29)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
MAY 12...	1245	6.8	330	7.8	9.5	--	9.8	--	160	36
JUL 01...	1030	.94	400	7.9	16.0	3	8.7	--	210	36
SEP 02...	1330	E.01	650	7.4	15.0	10	7.5	2.0	340	47

E Estimate.

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
MAY 12...	36	16	5.9	.2	2.3	146	0	120	56	2.4
JUL 01...	47	23	5.0	.2	2.1	215	0	176	47	2.6
SEP 02...	68	42	16	.4	2.6	361	0	296	84	6.0

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
MAY 12...	.2	8.0	199	.27	3.65	--	.00	--	.05	--
JUL 01...	.2	10	243	.33	.62	--	.01	--	--	--
SEP 02...	.3	11	408	.55	.01	.07	.03	.41	.03	.79

DATE	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
MAY 12...	--	--	--	--	--	.02	.01	.03	30	70
JUL 01...	--	--	--	--	--	.03	.01	.03	20	30
SEP 02...	.69	1.2	.72	1.3	.06	.03	.02	.06	60	30

DATE	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	BIOMASS CHLORO-PHYLL RATIO PLANK-TON (UNITS)	CHLOR-A PHYTO-PLANK-TON CHROMO SPECT. (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO SPECT. (UG/L)
MAY 12...	--	--	3.5	--	--	--	--	--	--
JUL 01...	--	--	--	11	.03	62	--	--	--
SEP 02...	110	2600	.5	52	.00	74	57.0	1.25	.100

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413349107272901 SEPARATION CREEK 8 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 33 49 LONG 107 27 29)

PERIPHYTON ANALYSES

SEP. 2, 1976
1330 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....NOSTOC	
	...OSCILLATORIACEAE	
E	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

DATE	SEP 2,76
TIME	1330
TOTAL CELLS/ML	2600
DIVERSITY: DIVISION	0.2
.CLASS	0.2
..ORDER	0.2
...FAMILY	0.2
....GENUS	0.2

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...GOMPHONEMATACEAE		
....GOMPHONEMA	27	2
...NAVICULACEAE		
....NAVICULA	13	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	2600#	98
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	27	2

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413239107291201 SEPARATION CREEK 10 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 32 39 LONG 107 29 12)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
MAR 29...	1345	.25	730	7.8	.0	--	--	--	380	75
MAY 12...	1145	7.3	470	8.1	8.0	--	10.8	--	230	52
JUL 01...	1115	1.3	600	7.9	17.0	2	8.4	--	310	59
SEP 02...	1500	.01	810	7.4	18.0	30	9.7	2.4	320	37

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
MAR 29...	81	42	27	.6	2.9	366	0	300	120	5.0
MAY 12...	49	26	13	.4	2.8	216	0	177	90	3.9
JUL 01...	69	33	28	.5	2.2	304	0	249	84	3.4
SEP 02...	49	49	47	1.1	2.9	318	16	287	140	7.8

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
MAR 29...	.2	11	470	.64	.32	--	.00	--	.04	--
MAY 12...	.2	9.5	301	.41	5.93	--	.00	--	.00	--
JUL 01...	.3	13	375	.51	1.33	--	.02	--	.03	--
SEP 02...	.3	14	483	.66	.01	.02	.02	.00	.00	2.3

DATE	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED-PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DIS. HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)
MAR 29...	--	--	--	--	--	--	.00	.00	.01	30
MAY 12...	--	--	--	--	--	.02	.01	.03	--	40
JUL 01...	--	--	--	--	--	.04	.01	.03	--	50
SEP 02...	.34	2.3	.34	2.3	.36	.06	.05	.15	--	80

DATE	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO SPECT. (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO SPECT. (UG/L)
MAR 29...	40	--	--	.0	60	.04	50	--	--	--
MAY 12...	10	--	220	3.8	--	--	--	--	--	--
JUL 01...	20	--	--	--	18	.06	64	--	--	--
SEP 02...	20	360	42000	8.3	150	.00	62	2.00	2.05	.305

413239107291201 SEPARATION CREEK 10 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 32 39 LONG 107 29 12)

PERIPHYTON ANALYSES
MAR. 29, 1976
1345 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....RHOPALODIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
E	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	

MAY 12, 1976
1145 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ZYGNEMATALES	
	...ZYGNEMATACEAE	
O	....MOUGEOTIA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...MERIDIONACEAE	
O	....MERIDION	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....GYROSIGMA	
E	....NAVICULA	
O	....PINNULARIA	
O	....STAURONEIS	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....CYMATOPLEURA	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....LYNGBYA	
O	....OSCILLATORIA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....EUGLENA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

413239107291201 SEPARATION CREEK 10 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 32 39 LONG 107 29 12)

PERIPHYTON ANALYSES

SEP. 2, 1976
1500 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ZYGNEMATALES	
	...ZYGNEMATACEAE	
O	....MOUGEOTIA	
E	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
O	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
E	....NOSTOC	
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING. 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

DATE	MAY 12,76		SEP 2,76	
TIME	1145		1500	
TOTAL CELLS/ML	220		42000	
DIVERSITY: DIVISION	0.8		0.7	
.CLASS	0.8		0.7	
..ORDER	0.8		0.7	
...FAMILY	2.6		0.7	
....GENUS	2.6		0.7	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	9	5	--	-
..ZYGNEMATALES				
...ZYGNEMATACEAE				
....SPIROGYRA	--	-	36000#	85
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..PENNALES				
...ACHNANTHACEAE				
....COCCONEIS	4	3	--	-
....RHOICOSPHENIA	4	3	--	-
...CYMBELLACEAE				
....EPITHEMIA	4	3	--	-
....RHOPALODIA	4	3	--	-
...FRAGILARIACEAE				
....SYNEDRA	4	3	--	-
...GOMPHONEMATACEAE				
....GOMPHONEMA	35#	17	360	1
...NAVICULACEAE				
....GYROSIGMA	*	0	--	-
....NAVICULA	66#	31	710	2
...NITZSCHIACEAE				
....NITZSCHIA	66#	31	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
.MYXOPHYCEAE				
..OSCILLATORIALES				
...NOSTOCACEAE				
....ANABAENA	13	7	--	-
...OSCILLATORIACEAE				
....OSCILLATORIA	--	-	5300	13
EUGLENOPHYTA (EUGLENOIDS)				
.EUGLENOPHYCEAE				
..EUGLENALES				
...EUGLENACEAE				
....EUGLENA	9	5	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413239107291201 SEPARATION CREEK 10 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 32 39 LONG 107 29 12)

BENTHIC INVERTEBRATE ANALYSES

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DATE                                    MAR 29.76
TIME                                        1345

TOTAL COUNT                                  190

DIVERSITY: PHYLUM                            0.1
           .CLASS                            0.8
           ..ORDER                           0.9
           ...FAMILY                         0.9
           ....GENUS                         1.1
           ....GENUS-INSECTA                 1.2

 ORGANISM                                  COUNT

ANNELIDA
.HIRUDINEA
..RHYNCHOBDELLIDA
...GLOSSIPHONIIDAE
....HELOBDELLA                                 1

ARTHROPODA (ARTHROPODS)
.CRUSTACEA
..AMPHIPODA
...GAMMARIDAE
....GAMMARUS                                 150
.INSECTA
..DIPTERA
...CHIRONOMIDAE
....DIPLOCLADIUS                              29
....PENTANEURA                                 1
....PROCLADIUS                                 4
....TANYTARSUS                                 1
...TIPULIDAE
....HEXATOMA                                   1
..EPHEMEROPTERA
...BAETIDAE
....CENTROPTILUM                               1

MOLLUSCA (MOLLUSCS)
.BIVALVIA
..NUCULOIDEA
...SPHAERIIDAE
....SPHAERIUM                                  2
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WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413404107311001 SEPARATION CREEK 14 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 34 04 LONG 107 31 10)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
MAY 12...	1415	9.8	570	8.2	12.0	--	10.8	--	270	61	59	30
JUL 01...	1210	1.8	670	8.5	19.5	20	7.0	--	340	66	71	40
SEP 02...	1615	.02	1150	8.8	22.0	20	14.6	1.3	450	120	40	85

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
MAY 12...	19	.5	3.5	256	0	210	110	4.2	.3	10	362	.49
JUL 01...	30	.7	3.2	337	0	276	120	3.8	.4	11	446	.61
SEP 02...	110	2.3	8.3	352	26	332	330	12	.7	3.5	790	1.07

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
MAY 12...	9.58	--	.01	--	.00	--	--	--	--	--	--
JUL 01...	2.17	--	.05	--	.03	--	--	--	--	--	--
SEP 02...	.04	.14	.16	.11	.01	.34	.34	.45	.35	.59	.04

DATE	DISSOLVED-PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAY 12...	.03	.01	.03	60	10	--	940	7.2	--	--	--
JUL 01...	.05	.02	.06	90	10	--	--	--	56	.27	95
SEP 02...	.03	.01	.03	250	30	20	860	--	92	.00	68

413404107311001 SEPARATION CREEK 14 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 34 04 LONG 107 31 10)

PERIPHYTON ANALYSES

MAY 12, 1976
1415 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....HANTZSCHIA	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....LYNGBYA	
E	....OSCILLATORIA	

SEP. 2, 1976
1615 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	...ULOTRICHACEAE	
O	....ULOTHRIX	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
E	....RHOICOSPHENIA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413404107311001 SEPARATION CREEK 14 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 34 04 LONG 107 31 10)

PHYTOPLANKTON ANALYSES

DATE	MAY 12,76	SEP 2,76
TIME	1415	1615
TOTAL CELLS/ML	940	860
DIVERSITY: DIVISION	1.0	1.0
.CLASS	1.1	1.0
..ORDER	1.1	1.1
...FAMILY	2.0	1.9
....GENUS	2.0	2.1

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)				
.CHLOROPHYCEAE				
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	--	-	6	1
CHRYSOPHYTA				
.BACILLARIOPHYCEAE				
..CENTRALES				
...COSCINODISCACEAE				
....CYCLOTELLA	--	-	17	2
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	12	2	6	1
....COCCONEIS	--	-	88	11
....RHOICOSPHENIA	--	-	6	1
...FRAGILARIACEAE				
....SYNEDRA	36	4	--	-
...GOMPHONEMATACEAE				
....GOMPHONEMA	12	2	88	11
...NAVICULACEAE				
....NAVICULA	59	7	28	4
...NITZSCHIACEAE				
....CYLINDROTHECA	--	-	11	2
....NITZSCHIA	270#	30	120	14
...SURIRELLACEAE				
....SURIRELLA	83	9	6	1
.CHRYSOPHYCEAE				
..CHRYSOMONADALES				
...UCHROMONADACEAE				
....OCHROMONAS	12	2	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)				
.MYXOPHYCEAE				
..OSCILLATORIALES				
...OSCILLATORIACEAE				
....OSCILLATORIA	450#	49	490#	58

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

413731107285101 SEPARATION CREEK ABOVE SIXTEEN MILE DRAW, NEAR RINER, WY (LAT 41 37 31 LONG 107 28 51)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
MAR 29...	1430	E1.5	1410	8.0	.0	--	--	650	320	99
MAY 12...	1515	11	690	8.4	13.5	--	9.2	310	97	60
JUL 01...	1245	1.8	790	8.4	19.0	1	7.4	--	--	--

E Estimate.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
MAR 29...	97	110	1.9	8.5	402	0	330	500	14
MAY 12...	40	31	.8	3.7	259	3	217	160	5.9
JUL 01...	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
MAR 29...	.3	12	1040	1.41	4.21	.00	.00	--	.03
MAY 12...	.3	8.8	440	.60	13.2	.00	.00	.01	.01
JUL 01...	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DIS. HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 29...	.09	.02	100	40	--	7.0	11	.04	30
MAY 12...	.03	--	70	30	2000	1.1	--	--	--
JUL 01...	--	--	--	--	--	--	30	.15	69

PHYTOPLANKTON ANALYSES

DATE	MAY 12.76
TIME	1515
TOTAL CELLS/ML	2000
DIVERSITY: DIVISION	1.0
.CLASS	1.0
..ORDER	1.0
...FAMILY	1.4
....GENUS	1.4

ORGANISM	CELLS /ML	PERCENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...FRAGILARIACEAE		
....SYNEDRA	35	2
...NAVICULACEAE		
....NAVICULA	100	6
...NITZSCHIACEAE		
....NITZSCHIA	830#	41
...SURIRELLACEAE		
....SURIRELLA	35	2
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	1000#	51

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413728107285204 SIXTEEN MILE DRAW ABOVE DAM, AT MOUTH, NEAR RINER, WY (LAT 41 37 28 LONG 107 28 52)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JUL 01...	1240	E.08	1650	8.5	23.0	4	3.6	48	91

413731107285102 SIXTEEN MILE DRAW BELOW DAM, AT MOUTH, NEAR RINER, WY (LAT 41 37 31 LONG 107 28 51)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
MAR 29...	1440	1.5	1410	7.8	.0	--	--	610	350	90
MAY 12...	1545	1.0	940	8.4	17.5	--	10.2	430	220	70
JUL 01...	1250	E.08	1750	8.6	22.0	6	4.6	810	530	95

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
MAR 29...	93	110	1.9	7.1	319	0	262	550	23
MAY 12...	62	54	1.1	4.2	253	4	214	300	13
JUL 01...	140	150	2.3	6.2	342	0	281	730	31

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
MAR 29...	.2	6.8	1040	1.41	4.21	.00	.02	--	.00
MAY 12...	.4	7.7	640	.87	1.73	.00	.00	.00	.00
JUL 01...	.4	3.2	1330	1.81	.29	.07	.01	.03	.00

DATE	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DIS. HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 29...	.00	.02	160	40	--	8.9	30	.12	89
MAY 12...	.00	--	140	20	490	.8	--	--	--
JUL 01...	.00	--	220	30	--	--	36	.01	89

E Estimate.

GREEN RIVER BASIN

413731107285102 SIXTEEN MILE DRAW BELOW DAM, AT MOUTH, NEAR RINER, WY (LAT 41 37 31 LONG 107 28 51)

PHYTOPLANKTON ANALYSES

DATE	MAY 12,76	
TIME	1545	
TOTAL CELLS/ML	490	
DIVERSITY: DIVISION	0.5	
.CLASS	0.5	
..ORDER	0.5	
...FAMILY	1.9	
....GENUS	2.4	
ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	19	4
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....ENTOMONEIS	38	8
...FRAGILARIACEAE		
....SYNEDRA	19	4
...NAVICULACEAE		
....NAVICULA	190#	39
....PINNULARIA	19	4
...NITZSCHIACEAE		
....NITZSCHIA	110#	24
...SURIRELLACEAE		
....SURIRELLA	76#	16
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	19	4

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

413731107285103 SEPARATION CREEK 20 MILES BELOW DIVIDE, BELOW SIXTEEN MILE DRAW, NEAR RINER, WY (LAT 41 37 31 LONG 107 28 51)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
MAR 29...	1450	3.0	1450	7.8	.0	--	--	640	340	95
MAY 12...	1615	12	740	8.4	14.5	--	9.4	340	120	62
JUL 01...	1300	1.9	960	8.4	20.0	1	5.8	500	210	84

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
MAR 29...	99	110	1.9	8.1	371	0	304	540	18
MAY 12...	44	36	.9	3.8	259	3	217	190	7.2
JUL 01...	70	60	1.2	3.8	346	0	284	270	9.5

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
MAR 29...	.3	9.3	1060	1.44	8.59	.00	.00	--	.00
MAY 12...	.3	8.6	483	.66	15.8	.00	.00	.01	.00
JUL 01...	.4	7.2	676	.92	3.47	.01	.01	.02	.00

DATE	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DIS. HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 29...	.00	.04	130	60	--	8.0	24	.19	57
MAY 12...	.00	--	80	40	600	.3	--	--	--
JUL 01...	.00	--	130	10	--	--	52	.27	81

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413731107285103 SEPARATION CREEK 20 MILES BELOW DIVIDE, BELOW SIXTEEN MILE DRAW, NEAR RINER, WY
(LAT 41 37 31 LONG 107 28 51)

PERIPHYTON ANALYSES

MAY 12, 1976
1615 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
O	....CLADOPHORA	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
E	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....AMPHIPRORA	
O	....CALONEIS	
O	....GYROSIGMA	
O	....NAVICULA	
O	....PINNULARIA	
O	....STAURONEIS	
	...NITZSCHIACEAE	
O	....HANTZSCHIA	
E	....NITZSCHIA	
	...SURIRELLACEAE	
E	....SURIRELLA	
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..CHROOCOCCALES	COCCOID
	...CHROOCOCCACEAE	
O	....AGMENELLUM	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....EUGLENA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413808107310901 SEPARATION CREEK 24 MILES BELOW DIVIDE, AT SPRING, IN SECTION 10, NEAR RINER, WY
(LAT 41 38 08 LONG 107 31 09)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)
JAN					
20...	1500	.40	1980	.0	--
30...	1100	.40	2050	.0	19

PERIPHYTON ANALYSES

JAN. 20, 1976
1500 HOURS

IDENTIFICATION OF PERIPHYTON

- - - NO ORGANISMS REPORTED - - -

NOTE: ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

JAN. 30, 1976
1100 HOURS

IDENTIFICATION OF PERIPHYTON

_ORGANISM__NAME	_COMMON__NAME
CHRYSOPHYTA	
.BACILLARIOPHYCEAE	DIATOMS
..PENNALES	PENNATE
...NITZSCHIACEAE	
E ....NITZSCHIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

JAN. 30, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

19 CELLS/ML

_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..PENNALES	PENNATE		
...CYMBELLACEAE			
L ....RHOPALODIA			0
...GOMPHONEMATACEAE			
L ....GOMPHONEMA			0
...NITZSCHIACEAE			
D ....NITZSCHIA		19	100
...SURIRELLACEAE			
L ....SURIRELLA			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE

BENTHIC INVERTIBRATES ANALYSES

JAN. 30, 1976
1100 HOURS

IDENTIFICATION OF BENTHIC INVERTIBRATES

8 COUNT

_ORGANISM__NAME	_COMMON__NAME	COUNT
ARTHROPODA		
.CRUSTACEA		
..AMPHIPODA	SCUDS	8

NOTE: ANALYSIS METHOD: SIEVE, DISSECTING MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413753107333601 SEPARATION CREEK 27 MILES BELOW DIVIDE, AT WINDMILL, NEAR RINER, WY (LAT 41 37 53 LONG 107 33 36)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
JAN										
20...	1300	.10	2500	--	.0	--	--	1100	570	190
30...	0930	E.10	2800	--	.0	--	--	--	--	--
FEB										
10...	1130	.01	2600	7.8	.0	--	--	--	--	--
MAR										
29...	1645	E6.0	1300	8.3	.5	--	--	560	280	87
MAY										
13...	0930	12	760	8.3	8.5	--	8.5	340	110	62
JUL										
01...	1530	1.6	1170	8.5	22.5	10	7.9	490	190	60

E Estimate.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
JAN									
20...	160	--	2.8	6.6	682	--	559	990	29
30...	--	--	--	--	--	--	--	--	--
FEB									
10...	--	--	--	--	--	--	--	--	--
MAR									
29...	83	100	1.8	7.0	342	0	281	480	16
MAY									
13...	45	42	1.0	4.0	278	0	228	200	7.8
JUL									
01...	70	100	2.0	4.5	365	0	299	400	11

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
JAN									
20...	.4	11	1940	2.64	.52	.01	--	--	--
30...	--	--	--	--	--	--	--	--	--
FEB									
10...	--	--	--	--	--	--	--	--	--
MAR									
29...	.3	7.1	949	1.29	15.4	.00	.04	--	.00
MAY									
13...	.3	8.3	507	.69	15.9	.00	.00	.02	.00
JUL									
01...	.4	4.9	851	1.16	3.68	.01	.02	.04	.03

DATE	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DIS. HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JAN									
20...	--	--	170	40	--	--	--	--	--
30...	--	--	--	--	890	--	--	--	--
FEB									
10...	--	--	--	--	8	.0	--	--	--
MAR									
29...	.00	.01	110	20	--	11	632	10	97
MAY									
13...	.00	--	90	30	620	2.4	--	--	--
JUL									
01...	.09	--	130	10	--	--	70	.30	93

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN
413753107333601 SEPARATION CREEK 27 MILES BELOW DIVIDE, AT WINDMILL, NEAR RINER, WY (LAT 41 37 53 LONG 107 33 36)
PERIPHYTON ANALYSES

JAN. 29, 1976
1300 HOURS

IDENTIFICATION OF PERIPHYTON

```
 _ORGANISM__NAME_____________   _COMMON__NAME______

 CHLOROPHYTA                    GREEN ALGAE
 .CHLOROPHYCEAE
 ..CHLOROCOCCALES
 ...OOCYSTACEAE
D ....ANKISTRODESMUS
 CHRYSOPHYTA
 .BACILLARIOPHYCEAE             DIATOMS
 ..PENNALES                     PENNATE
 ...GOMPHONEMATACEAE
D ....GOMPHONEMA
 ...NAVICULACEAE                NAVICULOID
X ....NAVICULA
 ...NITZSCHIACEAE
X ....NITZSCHIA
 ...SURIRELLACEAE
D ....SURIRELLA
 CYANOPHYTA                     BLUE-GREEN ALGAE
 .MYXOPHYCEAE
 ..OSCILLATORIALES              FILAMENTOUS
 ...OSCILLATORIACEAE
D ....LYNGBYA
```

JAN. 30, 1976
0930 HOURS

IDENTIFICATION OF PERIPHYTON

```
 _ORGANISM__NAME_____________   _COMMON__NAME______

 CHLOROPHYTA                    GREEN ALGAE
 .CHLOROPHYCEAE
 ..ULOTRICHALES
 ...ULOTRICHACEAE
D ....ULOTHRIX
 CHRYSOPHYTA
 .BACILLARIOPHYCEAE             DIATOMS
 ..PENNALES                     PENNATE
 ...CYMBELLACEAE
D ....EPITHEMIA
 ...FRAGILARIACEAE
X ....SYNEDRA
 ...GOMPHONEMATACEAE
D ....GOMPHONEMA
 ...NAVICULACEAE                NAVICULOID
X ....CALONEIS
X ....DIPLONEIS
X ....NAVICULA
 ...NITZSCHIACEAE
X ....NITZSCHIA
 ...SURIRELLACEAE
D ....SURIRELLA
 ...ACHNANTHACEAE
D ....RHOICOSPHENIA
```

FEB. 10, 1976
1130 HOURS

IDENTIFICATION OF PERIPHYTON

```
 _ORGANISM__NAME_____________   _COMMON__NAME______

 CHRYSOPHYTA
 .BACILLARIOPHYCEAE             DIATOMS
 ..PENNALES                     PENNATE
 ...CYMBELLACEAE
D ....EPITHEMIA
 ...NAVICULACEAE                NAVICULOID
X ....NAVICULA
 ...NITZSCHIACEAE
X ....NITZSCHIA
 CYANOPHYTA                     BLUE-GREEN ALGAE
 .MYXOPHYCEAE
 ..OSCILLATORIALES              FILAMENTOUS
 ...NOSTOCACEAE
D ....ANABAENA
```

NOTE: D - DESIGNATES DOMINANT ORGANISM, NOT ACTUALLY COUNTED
X - OBSERVED ORGANISM, NOT ACTUALLY COUNTED
ANALYSIS METHOD: GLASS MOUNTING, 100-X MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

413753107333601 SEPARATION CREEK 27 MILES BELOW DIVIDE, AT WINDMILL, NEAR RINER, WY (LAT 41 37 53 LONG 107 33 36)

PHYTOPLANKTON ANALYSES

JAN. 30, 1976
0930 HOURS

IDENTIFICATION OF PHYTOPLANKTON

. 890 CELLS/ML

_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...OCCYSTACEAE			
D ....ANKISTRODESMUS		510	57
..VOLVOCALES			
...CHLAMYDOMONADACEAE			
....SPHAERELLOPSIS		45	5
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..PENNALES	PENNATE		
...ACHNANTHACEAE			
....RHOIOCOSPHENIA		22	2
...CYMBELLACEAE			
....EPITHEMIA		22	2
...NAVICULACEAE	NAVICULOID		
D ....NAVICULA		180	20
...NITZSCHIACEAE			
....NITZSCHIA		89	10
PYRRHOPHYTA			
.DINOPHYCEAE	DINOFLAGELLATES		
..GYMNODINIALES			
...GYMNODINIACEAE			
....GYMNODINIUM		22	2

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.087
CLASS 1.087
ORDER 1.336
FAMILY 1.871
GENERA 1.871

FEB. 10, 1976
1130 HOURS

IDENTIFICATION OF PHYTOPLANKTON

8 CELLS/ML

_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
CHLOROPHYTA	GREEN ALGAE		
.CHLOROPHYCEAE			
..CHLOROCOCCALES			
...OCCYSTACEAE			
L ....ANKISTRODESMUS			0
CHRYSOPHYTA			
.BACILLARIOPHYCEAE	DIATOMS		
..PENNALES	PENNATE		
...NAVICULACEAE	NAVICULOID		
L ....NAVICULA			0
...NITZSCHIACEAE			
D ....NITZSCHIA		8	100
CYANOPHYTA	BLUE-GREEN ALGAE		
.MYXOPHYCEAE			
..OSCILLATORIALES	FILAMENTOUS		
...OSCILLATORIACEAE			
L ....LYNGBYA			0

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THAN 1%, MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE

BENTHIC INVERTEBRATES ANALYSES

JAN. 30, 1976
0930 HOURS

IDENTIFICATION OF BENTHIC INVERTEBRATES

- - - NO ORGANISMS REPORTED - - -

NOTE: ANALYSIS METHOD: SIEVE, DISSECTING MICROSCOPE

GREEN RIVER BASIN

413937107332301 SEPARATION CREEK RILL A2R BELOW GAGE, NEAR RINER, WY (LAT 41 39 37 LONG 107 33 23)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
FEB 09...	1600	.03	170	8.4	1.0	1400	130	0	37	8.1	17	.7
MAR 09...	1750	.01	180	--	.5	440	--	--	--	--	--	--

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
FEB 09...	18	177	0	145	16	8.0	.1	1.8	194	.26	.02
MAR 09...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB 09...	.04	1.1	3.4	4.5	4.5	1.5	220	280	736	.06	--
MAR 09...	--	--	--	--	--	--	--	--	403	.01	97

413940107333001 SEPARATION CREEK RILL A1L BELOW GAGE, NEAR RINER, WY (LAT 41 39 40 LONG 107 33 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB 09...	1610	.05	5600	.67

414017107325701 SEPARATION CREEK TRIBUTARY BELOW GAGE, NEAR RINER, WY (LAT 41 40 17 LONG 107 32 57)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAR 30...	1600	.01	195	8.8	5.0	81	0	24	5.6	7.2

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR 30...	.4	7.7	117	0	96	8.1	2.0	.1	[illegible]

DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR 30...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

DATE	TIME	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAR 30...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ANALYSIS OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

414122107320101 SEPARATION CREEK 31 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 41 22 LONG 107 32 01)

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)
MAR										
29...	1715	E6.0	1320	8.2	2.5	--	--	540	340	81
APR										
06...	1215	--	880	--	3.0	280	--	--	--	--
MAY										
13...	1230	10	940	8.4	11.5	--	8.6	440	190	70
JUL										
01...	1720	.5	1450	8.4	23.0	4	9.1	890	580	110

E Estimate.

DATE	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
MAR									
29...	83	86	1.6	7.3	247	0	203	510	13
APR									
06...	--	--	--	--	--	--	--	--	--
MAY									
13...	65	53	1.1	4.3	302	2	251	240	9.6
JUL									
01...	150	99	1.5	5.4	382	0	313	740	13

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)
MAR									
29...	.2	6.4	909	1.24	14.7	.00	.02	--	.00
APR									
06...	--	--	--	--	--	--	--	--	--
MAY									
13...	.3	7.8	641	.87	18.2	.00	.00	.01	.00
JUL									
01...	.4	2.8	1310	1.78	1.77	.01	.01	.03	.02

DATE	DIS-SOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DIS. HYDROLYZABLE PHOSPHORUS (P) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDIMENT (MG/L)	SUS-PENDED SEDIMENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR									
29...	.00	.01	110	40	--	9.3	100	1.6	88
APR									
06...	--	--	--	--	--	--	955	--	98
MAY									
13...	.00	--	100	20	660	.6	--	--	--
JUL									
01...	.00	--	190	10	--	--	22	.03	98

PHYTOPLANKTON ANALYSES

DATE	MAY 13,76
TIME	1230
TOTAL CELLS/ML	660
DIVERSITY: DIVISION	0.4
.CLASS	0.4
..ORDER	0.8
...FAMILY	[illegible]
....GENUS	2.1

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...[illegible]		
....[illegible]	[illegible]	7
...[illegible]		
....[illegible]	[illegible]	3
....[illegible]	[illegible]	10
...[illegible]		
....[illegible]	[illegible]	44
...[illegible]		
....[illegible]	[illegible]	9
CYANOPHYTA (BLUE-GREEN ALGAE)		
.[illegible]		
..[illegible]		
...[illegible]		
....[illegible]	[illegible]	22

NOTE: [illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

414515107281501 SEPARATION CREEK 39 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 45 15 LONG 107 28 15)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAY 13...	1330	E7.0	1200	8.4	18.0	--	12.6	580	280	83	91	82
JUL 01...	1000	.08	1350	8.5	21.5	2	8.3	620	300	68	110	100

E Estimate.

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
MAY 13...	1.5	7.0	372	0	305	420	13	.3	7.2	887	1.21	16.8
JUL 01...	1.7	10	396	0	325	450	16	.3	2.9	953	1.30	.21

DATE	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAY 13...	.00	.00	.00	.01	.03	140	40	5100	.4	--	--	--
JUL 01...	.04	.05	.04	.02	.06	100	20	--	--	20	.00	90

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

414515107281501 SEPARATION CREEK 30 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 45 15 LONG 107 28 15)

PERIPHYTON ANALYSES

MAY 13, 1976
1330 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...CHARACIACEAE	
O	....CHARACIUM	
	...HYDRODICTYACEAE	
O	....PEDIASTRUM	
	...OOCYSTACEAE	
O	....TETRAEDRON	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
E	....OEDOGONIUM	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	...MICROSPORACEAE	
E	....CYLINDROCAPSA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....COSMARIUM	
	...ZYGNEMATACEAE	
O	....MOUGEOTIA	
O	....SPIROGYRA	
E	....ZYGNEMA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....HANTZSCHIA	
O	....NITZSCHIA	
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
	..HETEROTRICHALES	
	...TRIBONEMATACEAE	
E	....TRIBONEMA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

414515107281501 SEPARATION CREEK 30 MILES BELOW DIVIDE, NEAR RINER, WY (LAT 41 45 15 LONG 107 28 15)
PHYTOPLANKTON ANALYSES

DATE	MAY 13,76
TIME	1330
TOTAL CELLS/ML	5100
DIVERSITY: DIVISION	1.4
.CLASS	1.4
..ORDER	1.5
...FAMILY	2.4
....GENUS	2.4

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	39	1
....OOCYSTIS	160	4
....TETRAEDRON	39	1
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....MOUGEOTIA	160	4
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	39	1
..PENNALES		
...DIATOMACEAE		
....DIATOMA	190	4
...FRAGILARIACEAE		
....SYNEDRA	39	1
...NAVICULACEAE		
....NAVICULA	120	3
...NITZSCHIACEAE		
....NITZSCHIA	1600#	32
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...NOSTOCACEAE		
....ANABAENA	1100#	23
...OSCILLATORIACEAE		
....OSCILLATORIA	1600#	31
EUGLENOPHYTA (EUGLENOIDS)		
.CRYPTOPHYCEAE		
..CRYPTOMONADALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	39	1

NOTE: # - DOMINANT ORGANISM, EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

414108107304001 SEPARATION CREEK TRIBUTARY NEAR RINER, WY (LAT 41 41 08 LONG 107 30 40)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
APR									
01...	1720	.01	100	7.6	.0	30	0	11	2.0

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
APR									
01...	1.6	.1	4.6	44	0	[illegible]	3.0	1.0	.1

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUSPENDED SEDIMENT SIEVE DIAM. % FINER THAN .062 MM
APR								
01...	8.7	60	.08	.00	.00	[illegible]	[illegible]	[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

414106107304001 SEPARATION CREEK TRIBUTARY NEAR RINER, WY (LAT 41 41 06 LONG 107 30 40)

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
APR									
01...	1730	69000	30	10	10	10	110	180	120000

DATE	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR									
01...	30	200	80	2900	.1	2	200	2	700

414637107265201 SEPARATION CREEK 41 MILES BELOW DIVIDE, AT I-80, NEAR RINER, WY (LAT 41 46 37 LONG 107 26 52)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
APR												
07...	1530	E40	950	8.0	5.0	--	--	360	200	63	48	59
MAY												
13...	1415	E6.0	1350	8.3	16.5	--	10.0	590	280	83	92	84
JUL												
01...	1830	E.02	1350	9.1	23.0	1	12.0	590	350	54	110	120

E. Estimate.

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
APR												
07...	1.4	9.9	191	0	157	300	14	.2	7.8	596	.81	64.4
MAY												
13...	1.5	7.3	376	0	308	420	14	.3	7.1	893	1.21	14.5
JUL												
01...	2.2	14	281	6	240	510	21	.4	.3	974	1.32	.05

DATE	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR												
07...	.00	--	--	.00	.00	110	60	--	--	--	--	--
MAY												
13...	.00	.00	.00	.00	.00	150	20	2200	.5	--	--	--
JUL												
01...	.01	--	--	--	--	130	10	--	--	10	.00	73

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

414637107265201 SEPARATION CREEK 41 MILES BELOW DIVIDE, AT I-80, NEAR RINER, WY (LAT 41 46 37 LONG 107 26 52)

PHYTOPLANKTON ANALYSES

DATE	MAY 13,76
TIME	1415
TOTAL CELLS/ML	2200
DIVERSITY: DIVISION	1.2
.CLASS	1.3
..ORDER	1.5
...FAMILY	2.2
....GENUS	2.2

ORGANISM	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....ANKISTRODESMUS	26	2
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	26	2
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...DIATOMACEAE		
....DIATOMA	26	2
...FRAGILARIACEAE		
....SYNEDRA	26	2
...GOMPHONEMATACEAE		
....GOMPHONEMA	26	2
...NITZSCHIACEAE		
....NITZSCHIA	730#	34
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..CHROOCOCCALES		
...CHROOCOCCACEAE		
....ANACYSTIS	100	5
..OSCILLATORIALES		
...NOSTOCACEAE		
....ANABAENA	780#	36
...OSCILLATORIACEAE		
....OSCILLATORIA	390#	18
EUGLENOPHYTA (EUGLENOIDS)		
.CRYPTOPHYCEAE		
..CRYPTOMONIDALES		
...CRYPTOMONODACEAE		
....CRYPTOMONAS	26	2
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....EUGLENA	26	2

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

420322107372501 LOWER STEWART RESERVOIR NEAR RINER, WY (LAT 42 03 22 LONG 107 37 25)

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)
MAR 26...	1120	600	7.0	.0	270	93	70	19	35	.9	7.0

DATE	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)
MAR 26...	220	180	140	16	.3	9.3	413	.56	.03	40	60

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

410520108583201 SALT WELLS CREEK TRIBUTARY SPRING NEAR SOUTH BAXTER, WY (LAT 41 05 20 LONG 108 58 32)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAR 31...	1030	E.40	460	8.3	6.5	3	200	0	46	21	24
JUL 10...	1040	E.20	440	8.0	12.0	--	180	0	36	22	33

E Estimate.

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
MAR 31...	.7	1.9	283	0	232	13	6.8	.1	25	278
JUL 10...	1.1	1.4	277	0	227	22	3.2	.1	19	273

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 31...	.38	.30	.10	--	--	.01	.03	17	.02	76
JUL 10...	.37	.15	.02	.00	.02	.03	.09	43	.02	61

DATE	TIME	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)
MAR 31...	1030	--	--	--	90	--	--	--	10
JUL 10...	1040	0	2	0	40	0	10	0	30

DATE	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR 31...	--	--	--	--	--	--	--	--	--
JUL 10...	0	10	20	.0	2	0	1	0.0	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

410547108582301 SALT WELLS CREEK 3.0 MILES ABOVE ALKALI CREEK, NEAR SOUTH BAXTER, WY
(LAT 41 05 47 LONG 108 58 23)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
MAR 31...	1000	.95	630	8.3	.0	100	12.6	--	240	0	51
JUL 10...	1115	.76	455	8.4	18.0	20	7.1	1.3	200	0	45

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR 31...	27	48	1.4	2.7	332	0	272	64	4.8	.2	20
JUL 10...	21	29	.9	1.9	265	9	232	25	4.5	.2	23

DATE	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
MAR 31...	340	383	.52	.98	520	.36	.35	.01	.01	.00	.00
JUL 10...	240	290	.39	.60	54	--	.10	--	.01	--	--

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 31...	.36	.47	.03	.01	.03	1000	1.6	798	2.0	68
JUL 10...	--	--	.05	.06	.18	1400	7.1	76	.16	58

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BERYLLIUM (BE) (U/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)
MAR 31...	1000	8600	20	1	0	0	0	60	<10	0	20
JUL 10...	1115	--	--	--	--	--	--	40	--	--	--

DATE	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
MAR 31...	0	30	2	14000	0	<100	0	20	10	370	0
JUL 10...	--	--	--	--	30	--	--	--	--	--	--

DATE	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR 31...	.0	.0	1	3	<50	6	1	2	6.2	70	0
JUL 10...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

410547108582301 SALT WELLS CREEK 3.0 MILES ABOVE ALKALI CREEK, NEAR SOUTH BAXTER, WY
(LAT 41 05 47 LONG 108 58 23)

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
MAR 31...	1000	15	37	4.8	24	3.8	19	.07	6.2
JUL 10...	1115	8.1	1.2	4.3	1.8	3.4	1.5	.06	4.9

PERIPHYTON ANALYSES

APR. 1, 1976
1000 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
E	....ACHNANTHES	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...MERIDIONACEAE	
O	....MERIDION	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	

JULY 10, 1976
1115 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
O	....CLADOPHORA	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....COCCONEIS	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
E	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E = ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O = OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

410547108582301 SALT WELLS CREEK 3.0 MILES ABOVE ALKALI CREEK, NEAR SOUTH BAXTER, WY
(LAT 41 05 47 LONG 108 58 23)

PHYTOPLANKTON ANALYSES

APR. 1, 1976
1000 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,000 CELLS/ML

	_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		110	11
	....COCCONEIS		54	5
	...CYMBELLACEAE			
	....CYMBELLA		54	5
	...GOMPHONEMATACEAE			
L	....GOMPHONEMA			0
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		380	37
	...NITZSCHIACEAE			
	....NITZSCHIA		54	5
	...SURIRELLACEAE			
D	....SURIRELLA		320	32
	EUGLENOPHYTA	EUGLENOIDS		
	.CRYPTOPHYCEAE	CRYPTOMONADS		
	..CRYPTOMONIDALES			
	...CRYPTOMONODACEAE			
	....CRYPTOMONAS		54	5

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.297
CLASS 0.297
ORDER 0.297
FAMILY 2.147
GENERA 2.292

JULY 10, 1976
1115 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,400 CELLS/ML

	_ORGANISM__NAME_______________	_COMMON__NAME_______	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
D	....ACHNANTHES		250	18
	....COCCONEIS		38	3
	...CYMBELLACEAE			
	....CYMBELLA		95	7
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		520	37
	...NITZSCHIACEAE			
D	....NITZSCHIA		290	21
	...SURIRELLACEAE			
	....SURIRELLA		38	3
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...OSCILLATORIACEAE			
	....OSCILLATORIA		150	11

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.503
CLASS 0.503
ORDER 0.503
FAMILY 2.237
GENERA 2.355

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

410730108571001 SALT WELLS CREEK 2.2 MILES ABOVE ALKALI CREEK, NEAR SOUTH BAXTER, WY (LAT 41 07 30 LONG 108 57 10)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAR 31...	1100	.80	750	8.4	.0	65	12.6	310	7	67	35	48
JUL 10...	1230	.42	550	8.6	24.0	20	--	220	0	48	25	40

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
MAR 31...	1.2	3.0	322	24	304	100	8.7	.2	19	465	.63	1.00
JUL 10...	1.2	2.7	280	1	231	60	5.5	.2	20	349	.47	.40

DATE	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 31...	.27	--	--	.01	.03	70	10	420	.0	100	.36	87
JUL 10...	.00	.01	.02	.04	.12	60	70	--	--	134	.15	94

PERIPHYTON ANALYSES

MAR. 31, 1976
1100 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
	...CYMBELLACEAE	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE
	..CHRYSOCAPSALES	
	...HYDRURACEAE	
E	....HYDRURUS	

NOTE: E - ESTIMATED DOMINANT ORGANISMS NOT ACTUALLY COUNTED
O - OBSERVED ORGANISMS NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

410730108571001 SALT WELLS CREEK 2.2 MILES ABOVE ALKALI CREEK, NEAR SOUTH BAXTER, WY
(LAT 41 07 30 LONG 108 57 10)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
MAR 31...	1100	.80	750	8.4	.0	65	12.6	310	7	67	35	48
JUL 10...	1230	.42	550	8.6	24.0	20	--	220	0	48	25	40

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
MAR 31...	1.2	3.0	322	24	304	100	8.7	.2	19	465	.63	1.00
JUL 10...	1.2	2.7	280	1	231	68	5.5	.2	20	349	.47	.40

DATE	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 31...	.27	--	--	.01	.03	70	10	420	.0	168	.36	87
JUL 10...	.00	.01	.02	.04	.12	60	70	--	--	134	.15	94

PERIPHYTON ANALYSES

MAR. 31, 1976
1100 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME________________	_COMMON__NAME_______
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
	...CYMBELLACEAE	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	.CHRYSOPHYCEAE	YELLOW-BROWN ALGAE
	..CHRYSOCAPSALES	
	...HYDRURACEAE	
E	....HYDRURUS	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

410730108571001 SALT WELLS CREEK 2.2 MILES ABOVE ALKALI CREEK, NEAR SOUTH BAXTER, WY
(LAT 41 07 30 LONG 108 57 10)

PHYTOPLANKTON ANALYSES

DATE	MAR 31,76
TIME	1100
TOTAL CELLS/ML	420
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	2.1
....GENUS	2.4

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	78#	19
....COCCONEIS	10	2
...FRAGILARIACEAE		
....FRAGILARIA	39	9
....SYNEDRA	39	9
...NAVICULACEAE		
....NAVICULA	180#	42
...NITZSCHIACEAE		
....NITZSCHIA	29	7
...SURIRELLACEAE		
....SURIRELLA	49	12

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

410847109002301 SALT WELLS CREEK BELOW ALKALI CREEK, NEAR SOUTH BAXTER, WY (LAT 41 08 47 LONG 109 00 23)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
MAR 31...	1140	1.5	975	8.5	2.5	600	10.6	--	400	140
JUL 10...	1250	.92	850	8.5	26.5	20	5.2	1.8	330	88

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
MAR 31...	78	51	64	1.4	3.8	325	0	267	260	12
JUL 10...	51	50	71	1.7	3.5	299	0	245	220	8.0

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
MAR 31...	.2	13	643	.87	2.60	.26	.02	.64	.66	.01
JUL 10...	.2	15	566	.77	1.41	.08	.03	--	--	.01

DATE	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 31...	.00	.00	100	0	3700	2.1	2230	9.0	92
JUL 10...	.03	.09	120	0	4700	1.1	70	.17	78

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

410847109002301 SALT WELLS CREEK BELOW ALKALI CREEK, NEAR SOUTH BAXTER, WY (LAT 41 08 47 LONG 109 00 23)

PERIPHYTON ANALYSES

MAR. 31, 1976
1140 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_	_COMMON__NAME_
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
E	....LYNGBYA	

JULY 10, 1976
1250 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_	_COMMON__NAME_
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...FRAGILARIACEAE	
E	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
E	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

410847109002301 SALT WELLS CREEK BELOW ALKALI CREEK, NEAR SOUTH BAXTER, WY (LAT 41 08 47 LONG 109 00 23)

PHYTOPLANKTON ANALYSES

DATE	MAR. 31,76
TIME	1140
TOTAL CELLS/ML	3700
DIVERSITY: DIVISION	1.0
.CLASS	1.0
..ORDER	1.0
...FAMILY	1.5
....GENUS	1.5

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...GOMPHONEMATACEAE		
....GOMPHONEMA	330	9
...NAVICULACEAE		
....NAVICULA	1200#	32
...NITZSCHIACEAE		
....NITZSCHIA	170	5
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	2000#	55

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

JULY 10, 1976
1250 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,700 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			0
L	....ACHNANTHES			
	...CYMBELLACEAE		120	3
	....CYMBELLA			
	...GOMPHONEMATACEAE		120	3
	....GOMPHONEMA			
	...NAVICULACEAE	NAVICULOID	720	15
D	....NAVICULA			
	...NITZSCHIACEAE		3,700	79
D	....NITZSCHIA			

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
FAMILY 0.950
GENERA 0.950

GREEN RIVER BASIN

411618108574001 SALT WELLS CREEK ABOVE GAP CREEK, NEAR SOUTH BAXTER, WY (LAT 41 16 18 LONG 108 57 40)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
MAR												
23...	1430	E5.0	510	--	.0	--	--	--	--	--	--	--
31...	1300	3.5	1250	8.5	1.0	1300	--	--	470	220	86	62
APR												
01...	1415	--	1000	8.5	1.0	--	12.0	--	--	--	--	--
06...	1500	4.0	1000	8.5	2.0	1600	12.0	5.5	370	160	68	49
09...	1615	E2.0	1100	--	9.0	1200	--	--	--	--	--	--
20...	1500	E1.2	1240	8.6	10.0	380	9.6	2.2	510	210	43	68
MAY												
13...	1205	E2.8	740	--	14.0	550	--	--	--	--	--	--
JUN												
06...	1300	E.50	870	8.6	17.0	150	9.3	1.1	--	--	--	--
06...	1400	--	--	--	--	--	--	--	--	--	--	--
07...	1610	E1.6	945	--	--	125	--	--	--	--	--	--
JUL												
10...	1600	.15	1250	8.6	29.0	0	6.0	--	430	230	55	72
12...	1510	E.14	1220	--	20.0	1	--	--	--	--	--	--
AUG												
03...	1300	E15	800	--	13.5	12000	--	--	300	190	78	26
14...	1400	E.60	3100	8.5	19.0	1	--	--	--	--	--	--

E Estimate.

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
31...	96	1.9	5.8	292	5	248	400	19	.3	9.2	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	71	1.6	5.0	258	0	212	300	9.9	.3	8.8	--
09...	--	--	--	--	--	--	--	--	--	--	--
20...	98	1.9	5.3	366	0	300	380	13	.3	13	--
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	560
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	130	2.7	7.4	234	10	209	480	18	.3	6.8	--
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	43	1.1	8.3	135	0	111	300	6.6	.3	5.1	--
14...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
31...	828	1.13	7.82	--	--	.22	--	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	639	.87	6.90	--	.26	--	.15	--	4.5	--	4.6
09...	--	--	--	--	--	--	--	--	--	--	--
20...	853	1.16	2.76	--	.26	.26	.04	.04	1.9	.19	1.9
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	260	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	895	1.22	.36	--	--	.00	--	.00	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	536	.73	21.7	--	--	.47	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411618108574001 SALT WELLS CREEK ABOVE GAP CREEK, NEAR SOUTH BAXTER, WY (LAT 41 16 18 LONG 108 57 40)

DATE	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR											
23...	--	--	--	--	--	--	--	--	4830	65	98
31...	--	--	--	--	.01	.03	--	--	6030	57	91
APR											
01...	--	--	--	--	--	--	8700	2.6	--	--	--
06...	--	4.9	5.8	--	--	--	--	--	4820	52	98
09...	--	--	--	--	--	--	--	--	2740	15	90
20...	.23	2.2	.68	.03	.01	.03	--	--	1060	3.4	97
MAY											
13...	--	--	--	--	--	--	--	--	1730	13	86
JUN											
06...	--	--	--	--	--	--	4600	2.0	153	.21	98
06...	--	--	--	--	--	--	--	--	258	--	95
07...	--	--	--	--	--	--	--	--	264	1.1	96
JUL											
10...	--	--	--	.01	.01	.03	--	--	22	.01	38
12...	--	--	--	--	--	--	--	--	21	.01	86
AUG											
03...	--	--	--	.03	.01	.03	--	--	48300	1960	98
14...	--	--	--	--	--	--	--	--	32	.05	78

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BERYLLIUM (BE) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)
MAR											
31...	1300	--	--	--	--	--	--	140	--	--	--
APR											
06...	1500	--	--	--	--	--	--	120	--	--	--
20...	1500	14000	10	18	3	0	0	150	<10	1	20
JUL											
10...	1600	--	10	--	2	--	0	210	--	0	--
AUG											
03...	1300	--	--	--	--	--	--	110	--	--	--

DATE	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
MAR											
31...	--	--	--	--	30	--	--	--	--	--	--
APR											
06...	--	--	--	--	40	--	--	--	--	--	--
20...	0	30	1	24000	100	<100	2	60	30	660	20
JUL											
10...	10	--	1	--	70	--	1	--	60	--	20
AUG											
03...	--	--	--	--	80	--	--	--	--	--	50

DATE	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
MAR											
31...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
20...	.0	.0	5	5	50	2	2	1	1.4	100	0
JUL											
10...	--	.0	--	8	--	5	--	1	.8	--	0
AUG											
03...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)
JUN									
06...	1300	9.7	25	5.3	13	4.2	11	.07	4.3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411618108574001 SALT WELLS CREEK ABOVE GAP CREEK, NEAR SOUTH BAXTER, WY (LAT 41 16 18 LONG 108 57 40)

PERIPHYTON ANALYSES

APR. 1, 1976
1415 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...ULOTRICHACEAE	
O	....ULOTHRIX	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

JUNE 6, 1976
1300 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
E	....NAVICULA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411618108574001 SALT WELLS CREEK ABOVE GAP CREEK, NEAR SOUTH BAXTER, WY (LAT 41 16 18 LONG 108 57 40)

PHYTOPLANKTON ANALYSES

DATE	APR 1,76
TIME	1415
TOTAL CELLS/ML	8700
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	1.8
....GENUS	2.1

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...CYMBELLACEAE		
....CYMBELLA	1000	12
....EPITHEMIA	1000	12
...GOMPHONEMATACEAE		
....GOMPHONEMA	1700#	20
...NAVICULACEAE		
....NAVICULA	3800#	44
...NITZSCHIACEAE		
....NITZSCHIA	1000	12
...SURIRELLACEAE		
....SURIRELLA	*	0

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

JUNE 6, 1976
1300 HOURS

IDENTIFICATION OF PHYTOPLANKTON

4,600 CELLS/ML

	_ORGANISM__NAME_	_COMMON__NAME_	CELLS/ML	PER_CENT
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...FRAGILARIACEAE			
	....SYNEDRA		280	6
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		560	12
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		980	21
	...NITZSCHIACEAE			
D	....NITZSCHIA		1,700	36
	...SURIRELLACEAE			
D	....SURIRELLA		1,100	24

NOTE: D - DOMINANT ORGANISM: GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER , 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
FAMILY 2.115
GENERA 2.115

411003109015601 GAP CREEK NEAR RED SPRINGS RANCH, WY (LAT 41 10 03 LONG 109 01 56)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR								
31...	1310	1.5	2300	4.0	2200	1390	5.6	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

411106109021701 IRON SPRING CREEK NEAR SOUTH BAXTER, WY (LAT 41 11 06 LONG 109 02 17)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
MAR								
30...	1515	E.20	630	7.2	9.0	.9	400	.0
JUN								
09...	1230	.01	670	7.0	11.0	7.1	140	.0

E Estimate.

PERIPHYTON ANALYSES
MAR. 30, 1976
1515 HOURS
IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
	...CYMBELLACEAE	
O	....CYMBELLA	
	...NAVICULACEAE	NAVICULOID
E	....NAVICULA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

DATE	MAR 30,76
TIME	1515
TOTAL CELLS/ML	400
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	2.2
....GENUS	2.2

ORGANISM	CELLS /ML	PERCENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	180#	45
...CYMBELLACEAE		
....CYMBELLA	60	15
...FRAGILARIACEAE		
....SYNEDRA	20	5
...GOMPHONEMATACEAE		
....GOMPHONEMA	40	10
...NAVICULACEAE		
....NAVICULA	40	10
...NITZSCHIACEAE		
....NITZSCHIA	60	15

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

BENTHIC INVERTEBRATE ANALYSES

DATE	MAR 30,76
TIME	1515
TOTAL COUNT	32
DIVERSITY: PHYLUM	0.0
.CLASS	0.4
..ORDER	0.5
...FAMILY	0.5
....GENUS	0.5
....GENUS-INSECTA	0.9

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.CRUSTACEA	
..AMPHIPODA	
...GAMMARIDAE	
....GAMMARUS	29
.INSECTA	
..DIPTERA	
...CHIRONOMIDAE	
....DIPLOCLADIUS	1
..TRICHOPTERA	
...LIMNEPHILIDAE	
....HESPEROPHYLAX	2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411153109030201 GAP SPRING CREEK NEAR MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 11 53 LONG 109 03 02)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
MAR 30...	1715	E.10	515	7.4	6.5	--	6.2	--	--	--
APR 06...	1245	.02	515	7.4	6.5	19	--	--	270	76
06...	1715	E.02	515	7.4	6.5	20	6.2	.6	--	--
JUN 09...	1200	E.01	600	6.8	10.0	--	1.4	--	--	--
AUG 14...	1230	E.03	590	7.9	19.0	2	--	--	--	--

E Estimate.

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAR 30...	--	--	--	--	--	--	--	--	--
APR 06...	61	28	5.3	.1	4.5	234	0	192	90
06...	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
MAR 30...	--	--	--	--	--	--	--	--	--
APR 06...	9.6	.5	8.3	325	.44	.02	.00	.13	.34
06...	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--
AUG 14...	--	--	--	--	--	--	--	--	--

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 30...	--	--	--	--	--	26	.0	--	--
APR 06...	.47	.47	.02	70	2500	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	0	.0	--	--
AUG 14...	--	--	--	--	--	--	--	52	42

GREEN RIVER BASIN

411153109030201 GAP SPRING CREEK NEAR MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 11 53 LONG 109 03 02)

PERIPHYTON ANALYSES

```
                         MAR. 30. 1976
                          1715 HOURS

                  IDENTIFICATION OF PERIPHYTON

   _ORGANISM__NAME_______________   _COMMON__NAME_______

   CHRYSOPHYTA
   .BACILLARIOPHYCEAE               DIATOMS
   ..PENNALES                       PENNATE
   ...ACHNANTHACEAE
 O ....ACHNANTHES
   ...CYMBELLACEAE
 E ....CYMBELLA
   ...GOMPHONEMATACEAE
 O ....GOMPHONEMA
   ...NAVICULACEAE                  NAVICULOID
 E ....NAVICULA
 O ....PINNULARIA
   ...NITZSCHIACEAE
 O ....NITZSCHIA

 NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
       O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
       ANALYSIS METHOD: SLIDE MOUNTING. 200-X MICROSCOPE
```

PHYTOPLANKTON ANALYSES

```
DATE                                MAR 30.76
TIME                                  1715

TOTAL CELLS/ML                         26

DIVERSITY: DIVISION                   0.0
           .CLASS                     0.0
           ..ORDER                    0.0
           ...FAMILY                  1.6
           ....GENUS                  1.6

                                  CELLS  PER-
 ORGANISM                          /ML   CENT

CHRYSOPHYTA
.BACILLARIOPHYCEAE
..PENNALES
...CYMBELLACEAE
....CYMBELLA                        9#  33
...NAVICULACEAE
....PINNULARIA                      9#  33
...NITZSCHIACEAE
....NITZSCHIA                       9#  33

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
      * - OBSERVED ORGANISM. MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%
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BENTHIC INVERTEBRATE ANALYSES

```
DATE                                MAR 30.76
TIME                                  1715

TOTAL COUNT                            21

DIVERSITY: PHYLUM                     0.0
           .CLASS                     0.0
           ..ORDER                    0.7
           ...FAMILY                  0.7
           ....GENUS                  0.7
           ....GENUS-INSECTA          0.7

ORGANISM                             COUNT

ARTHROPODA (ARTHROPODS)
.INSECTA
..COLEOPTERA
...DYTISCIDAE
....ERETES                             2
..DIPTERA
...TIPULIDAE
....DICRANOTA                          1
..TRICHOPTERA
...LIMNEPHILIDAE
....HESPEROPHYLAX                      18
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411055109060202 LITTLE BASIN CREEK ABOVE TRIBUTARY, NEAR SOUTH BAXTER, WY (LAT 41 10 55 LONG 109 06 02)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
MAR									
31...	1215	E.10	140	7.6	[illegible].0	10.2	2.0	3600	33

E Estimate.

PERIPHYTON ANALYSES

MAR. 31, 1976
1215 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...NITZSCHIACEAE	
O	....HANTZSCHIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
E	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

DATE	MAR 31,76
TIME	1215
TOTAL CELLS/ML	3600
DIVERSITY: DIVISION	0.2
.CLASS	0.2
..ORDER	0.2
...FAMILY	0.2
....GENUS	0.2

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...CYMBELLACEAE		
....EPITHEMIA	50	1
...NITZSCHIACEAE		
....HANTZSCHIA	50	1
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	3500#	97

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411055109060201 LITTLE BASIN CREEK TRIBUTARY NEAR SOUTH BAXTER, WY (LAT 41 10 55 LONG 109 06 02)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR										
31...	1215	.01	140	5.0	70	13	16	7.3	1.2	.1

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
MAR									
31...	1.9	69	57	17	1.5	.3	2.6	83	.11

DATE	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR									
31...	.00	.35	.01	.03	40	60	6060	.16	98

411038109042101 LITTLE BASIN CREEK AT MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 10 38 LONG 109 04 21)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
APR										
20...	1110	E.35	950	8.3	7.0	50	10.0	--	--	--
MAY										
13...	1115	E.10	1110	--	11.0	30	--	--	--	--
JUN										
07...	1725	E.25	920	8.3	17.0	50	8.8	--	--	--
25...	1100	E.30	890	8.6	14.0	75	7.1	1.2	--	--
JUL										
10...	1700	.23	760	8.5	25.0	82	--	2.4	390	200
AUG										
14...	1200	E.34	780	8.3	18.0	9	--	--	--	--

E Estimate.

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
13...	--	--	--	--	--	--	--	--	--	--
JUN										
07...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	77	49	24	.5	3.1	232	5	199	210	18
AUG										
14...	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411038109042101 LITTLE BASIN CREEK AT MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 10 38 LONG 109 04 21)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)
APR										
20...	--	--	--	--	--	--	--	--	--	--
MAY										
13...	--	--	--	--	--	--	--	--	--	--
JUN										
07...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
JUL										
10...	.3	13	530	513	.70	.32	140	.00	.00	.01
AUG										
14...	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR									
20...	--	--	--	--	2400	.0	260	.25	67
MAY									
13...	--	--	--	--	--	--	138	.04	82
JUN									
07...	--	--	--	--	2000	--	134	.09	92
25...	--	--	--	--	1700	.0	186	.15	93
JUL									
10...	.01	.03	150	1100	--	--	327	.20	95
AUG									
14...	--	--	--	--	--	--	93	.09	90

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
JUL									
10...	1700	22	12	6.0	6.3	4.8	5.0	.10	3.1

PERIPHYTON ANALYSES

APR. 20, 1976
1110 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....GYROSIGMA	
E	....NAVICULA	
O	....PINNULARIA	
O	....STAURONEIS	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411038109042101 LITTLE BASIN CREEK AT MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 10 38 LONG 109 04 21)

PERIPHYTON ANALYSES

JUNE 25, 1976
1100 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ULOTRICHALES	
	...ULOTRICHACEAE	
O	....ULOTHRIX	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
E	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PLASTIC SLIDES, TIMED SAMPLING INTERVAL
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

JUNE 25, 1976
1100 HOURS

IDENTIFICATION OF PHYTOPLANKTON

1,700 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..VOLVOCALES			
	...CHLAMYDOMONADACEAE			
	....CHLAMYDOMONAS		23	1
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....ACHNANTHES		91	5
	...CYMBELLACEAE			
	....CYMBELLA		23	1
	...FRAGILARIACEAE			
	....FRAGILARIA		23	1
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		91	5
	...NAVICULACEAE	NAVICULOID		
L	....GYROSIGMA			0
D	....NAVICULA		450	27
	...NITZSCHIACEAE			
D	....NITZSCHIA		520	31
	...SURIRELLACEAE			
D	....SURIRELLA		320	19
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..OSCILLATORIALES	FILAMENTOUS		
	...NOSTOCACEAE			
	....ANABAENA		160	9

NOTE: D - DOMANANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.548
CLASS 0.548
ORDER 0.548
FAMILY 2.503
GENERA 2.503

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

411249109025601 TITSWORTH SPRINGS NEAR SOUTH BAXTER, WY (LAT 41 12 49 LONG 109 02 56)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
FEB 11...	1430	.10	1000	7.0	8.0	3	--	490	190	110	53	41
MAR 30...	1115	.20	645	7.6	9.0	--	--	--	--	--	--	--
JUN 02...	0930	.10	930	7.3	12.0	--	7.3	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
FEB 11...	.8	3.3	369	0	303	280	17	.3	10	697	.16
MAR 30...	--	--	--	--	--	--	--	--	--	--	--
JUN 02...	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
FEB 11...	.15	.01	.40	.41	.57	.00	.00	130	60	--	--
MAR 30...	--	--	--	--	--	--	--	--	--	12000	.0
JUN 02...	--	--	--	--	--	--	--	--	--	31	.0

PERIPHYTON ANALYSES
MAR. 30. 1976
1115 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME	_COMMON__NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ZYGNEMATALES	
	...ZYGNEMATACEAE	
O	....MOUGEOTIA	
O	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...FRAGILARIACEAE	
O	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
O	....PINNULARIA	
O	....STAURONEIS	
	...NITZSCHIACEAE	
O	....HANTZSCHIA	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	.XANTHOPHYCEAE	YELLOW-GREEN ALGAE
	..HETEROTRICHALES	
	...TRIBONEMATACEAE	
O	....TRIBONEMA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..CHROOCOCCALES	COCCOID
	...CHROOCOCCACEAE	
O	....AGMENELLUM	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
E	....LYNGBYA	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

GREEN RIVER BASIN

411249109025601 TITSWORTH SPRINGS NEAR SOUTH BAXTER, WY (LAT 41 12 49 LONG 109 02 56)

PHYTOPLANKTON ANALYSES

DATE	MAR 30.76
TIME	1115
TOTAL CELLS/ML	12000
DIVERSITY: DIVISION	0.4
.CLASS	0.4
..ORDER	0.4
...FAMILY	0.5
....GENUS	1.2

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	300	3
....CHLOROGONIUM	*	0
..ZYGNEMATALES		
...ZYGNEMATACEAE		
....SPIROGYRA	*	0
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	*	0
...FRAGILARIACEAE		
....SYNEDRA	*	0
...NAVICULACEAE		
....NAVICULA	*	0
...NITZSCHIACEAE		
....NITZSCHIA	390	3
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...NOSTOCACEAE		
....ANABAENA	*	0
...OSCILLATORIACEAE		
....LYNGBYA	8500#	74
....OSCILLATORIA	2200#	19

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

BENTHIC INVERTEBRATE ANALYSES

DATE	MAR 30.76
TIME	1115
TOTAL COUNT	55
DIVERSITY: PHYLUM	0.2
.CLASS	1.2
..ORDER	1.6
...FAMILY	1.7
....GENUS	1.7
....GENUS-INSECTA	1.2

ORGANISM	COUNT
ANNELIDA	
.HIRUDINEA	
..UNKNOWN ORDER	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	2
ARTHROPODA (ARTHROPODS)	
.CRUSTACEA	
..AMPHIPODA	
...GAMMARIDAE	
....GAMMARUS	31
.INSECTA	
..ODONATA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	1
..COLEOPTERA	
...DYTISCIDAE	
....ERETES	1
..HEMIPTERA	
...CORIXIDAE	
....PALMACORIXA	17
...NOTONECTIDAE	
....NOTONECTA	1
..TRICHOPTERA	
...LIMNEPHILIDAE	
....HESPEROPHYLAX	2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411622108583501 DANS CREEK NEAR SOUTH BAXTER, WY (LAT 41 16 22 LONG 108 58 35)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
MAY							
13...	1150	E.80	410	--	8.0	180	--
JUN							
06...	1300	.10	1730	8.4	19.0	100	8.7
AUG							
03...	1320	E3.0	560	--	14.0	--	--

E Estimate.

DATE	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAY						
13...	--	--	--	254	.55	97
JUN						
06...	.9	1500	.9	153	.04	98
AUG						
03...	--	--	--	4080	33	100

411630108574801 GAP CREEK AT MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 16 30 LONG 108 57 48)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
MAR											
23...	1400	7.0	1300	--	.0	--	--	--	--	--	--
APR											
01...	1215	E.50	1500	8.4	6.0	--	12.1	--	--	--	--
06...	1415	6.0	1400	7.9	3.0	600	12.8	3.4	690	460	110
09...	1600	F5.0	2100	--	10.0	500	--	--	--	--	--
21...	1045	F1.6	1670	8.6	7.0	340	10.2	2.4	820	460	130
MAY											
13...	1220	E8.5	710	--	17.0	400	--	--	--	--	--
JUN											
06...	1200	E.50	1300	8.5	17.0	60	9.1	.8	--	--	--
07...	1550	F.65	1400	--	23.0	30	--	--	--	--	--
JUL											
10...	1930	.19	1900	8.6	25.0	15	--	--	790	640	86
12...	1520	E.46	2800	--	20.0	7	--	--	--	--	--
AUG											
03...	1250	E75	750	--	16.0	6000	--	--	290	180	73
14...	1330	E.01	4000	8.5	21.0	30	--	--	--	--	--

E Estimate.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	100	86	1.4	7.8	274	0	225	590	26	.3	8.6
09...	--	--	--	--	--	--	--	--	--	--	--
21...	120	100	1.5	6.5	411	12	357	600	36	.4	11
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	140	180	2.8	6.9	158	10	146	880	75	.4	.6
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	25	36	.9	8.4	124	0	102	260	11	.3	4.2
14...	--	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN
411630108574801 GAP CREEK AT MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 16 30 LONG 108 57 48)

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	1060	1.44	17.2	.03	--	.08	--	2.5	--	2.6	--
09...	--	--	--	--	--	--	--	--	--	--	--
21...	1220	1.66	5.27	.01	.19	.03	.03	1.7	.51	1.7	.54
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
10...	1460	1.99	.75	--	.04	--	.00	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	480	.65	97.2	--	.18	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	POTEN-TIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR										
23...	--	--	--	--	--	--	--	5630	106	86
APR										
01...	--	--	--	--	--	660	5.3	--	--	--
06...	2.6	1.3	--	--	--	--	--	1640	27	88
09...	--	--	--	--	--	--	--	2430	33	92
21...	1.7	.75	.04	.01	.03	--	--	878	3.8	92
MAY										
13...	--	--	--	--	--	--	--	1420	33	85
JUN										
06...	--	--	--	--	--	3200	2.6	79	.11	96
07...	--	--	--	--	--	--	--	77	.14	90
JUL										
10...	--	--	.01	.00	.00	--	--	34	.02	62
12...	--	--	--	--	--	--	--	43	.05	93
AUG										
03...	--	--	--	.01	.03	--	--	14500	2940	98
14...	--	--	--	--	--	--	--	199	.01	94

DATE	TIME	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
APR											
06...	1415	--	--	--	--	--	--	210	--	--	--
21...	1045	8800	20	11	1	10	0	200	<10	1	30
JUL											
10...	1930	--	0	--	0	--	0	320	--	0	--
AUG											
03...	1250	--	--	--	--	--	--	140	--	--	--

DATE	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)
APR											
06...	--	--	--	--	20	--	--	--	--	--	--
21...	10	20	2	17000	60	<100	5	110	80	460	30
JUL											
10...	10	--	1	--	80	--	0	--	140	--	20
AUG											
03...	--	--	--	--	240	--	--	--	--	--	50

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
APR											
06...	--	--	--	--	--	--	--	--	--	--	--
21...	.0	.0	4	3	50	4	1	1	.9	80	0
JUL											
10...	--	.0	--	4	--	2	--	1	.6	--	0
AUG											
03...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411630108574801 GAP CREEK AT MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 16 30 LONG 108 57 48)

PERIPHYTON ANALYSES

APR. 1, 1976
1215 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...CYMBELLACEAE	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
E	....NAVICULA	
	...NITZSCHIACEAE	
E	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

DATE	APR 1,76
TIME	1215
TOTAL CELLS/ML	660
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.9
....GENUS	0.9

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....NAVICULA	470#	71
...NITZSCHIACEAE		
....NITZSCHIA	190#	29
CYANOPHYTA (BLUE-GREEN ALGAE)		
.MYXOPHYCEAE		
..OSCILLATORIALES		
...OSCILLATORIACEAE		
....OSCILLATORIA	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

411352108533001 DRY CANYON CREEK ABOVE PIO RESERVOIR, NEAR SOUTH BAXTER, WY (LAT 41 13 52 LONG 108 53 30)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
AUG 03...	1130	.03	190	7.9	18.0	7.2	3.2	75	4	24	3.6

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
AUG 03...	7.9	.4	6.5	86	0	71	15	3.2	.2	4.7	109

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
AUG 03...	.15	.01	.29	.23	.02	.01	4.0	.62	4.0	.63	4.3

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
AUG 03...	1.8	.13	.07	.21	60	100	0	5900	3250	.26	99

411417108532401 PIO RESERVOIR NEAR SALT WELLS, WY (LAT 41 14 17 LONG 108 53 24)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
AUG 03...	1400	140	8.2	15.0	6.7	3.2	61	6	19	3.2

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
AUG 03...	4.1	.2	6.0	67	0	55	23	2.1	.2	3.4

DATE	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
AUG 03...	130	95	.13	.31	.17	.01	.00	2.8	.47

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
AUG 03...	2.8	.47	3.1	1.6	.16	.09	.28	0	47

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411417108532401 PIO RESERVOIR NEAR SALT WELLS, WY (LAT 41 14 17 LONG 108 53 24)

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
AUG 03...	1400	40000	90	50	2	400	100	50	<10	1

DATE	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
AUG 03...	50	10	60	17	50000	150	100	3	720	0

DATE	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG 03...	.0	.0	2	0	2	0	10	0	240	0

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)
AUG 03...	1400	1.8	490	12	260	10	210	.12	.7

PERIPHYTON ANALYSES

AUG. 3, 1976
1400 HOURS

IDENTIFICATION OF PERIPHYTON

- - - NO ORGANISMS REPORTED - - -

NOTE: ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

AUG. 3, 1976
1400 HOURS

IDENTIFICATION OF PHYTOPLANKTON

- - - NO ORGANISMS REPORTED - - -

NOTE: ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411639108564401 DRY CANYON CREEK AT MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 16 39 LONG 108 56 44)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
AUG												
01...	0920	E.13	300	7.4	16.0	4000	7.2	4.9	140	53	46	5.7
01...	1945	32	625	--	15.0	4000	--	4.4	290	190	98	11
01...	2040	20	405	--	15.0	--	--	--	--	--	--	--
03...	1030	E.50	300	--	13.0	2500	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--

E Estimate.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
AUG												
01...	6.3	.2	9.7	104	0	85	77	4.9	.3	5.1	--	208
01...	20	.5	12	116	0	95	250	6.0	.2	3.1	300	462
01...	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
AUG												
01...	.28	.07	.34	.34	.29	.16	6.0	2.6	6.3	2.8	6.6	4.3
01...	.63	39.9	.54	.87	.23	.00	7.1	.63	7.3	.63	7.8	6.0
01...	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)
AUG											
01...	.14	.07	.21	2800	29	9080	3.2	100	--	--	--
01...	.15	.09	.28	--	--	12600	1090	--	--	--	--
01...	--	--	--	--	--	14700	794	70	--	--	--
03...	--	--	--	--	--	6050	8.2	89	--	--	--
05...	--	--	--	--	--	--	--	--	412	.034	.000

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
AUG										
01...	0920	--	--	--	--	--	--	6	--	--
01...	1945	92000	20	21	4	1800	100	70	10	0

DATE	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
AUG										
01...	--	--	--	--	--	90	--	--	--	0
01...	140	0	210	4	180000	60	300	0	5000	20

GREEN RIVER BASIN

411639108564401 DRY CANYON CREEK AT MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 16 39 LONG 108 56 44)

DATE	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG										
01...	--	--	--	--	--	--	--	--	--	--
01...	.6	.0	4	0	1	1	30	0	880	0

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
AUG									
01...	1945	5.6	1200	30	480	25	410	.24	.30

PERIPHYTON ANALYSES
AUG. 1, 1976
0920 HOURS

IDENTIFICATION OF PERIPHYTON

- - - NO ORGANISMS REPORTED - - -

NOTE: ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

PHYTOPLANKTON ANALYSES

DATE	AUG 1,76
TIME	0920
TOTAL CELLS/ML	2800
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	0.0
....GENUS	0.0

ORGANISM	CELLS /ML	PER-CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...NAVICULACEAE		
....NAVICULA	2800#	100

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

411652108564701 SALT WELLS CREEK BELOW DRY CANYON CREEK, NEAR SOUTH BAXTER, WY (LAT 41 16 52 LONG 108 56 47)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JUL											
10...	2010	E.10	1950	8.6	23.5	2	7.1	780	640	83	140

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
JUL											
10...	190	3.0	7.5	174	0	143	930	72	.4	1.3	1700

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
JUL											
10...	1510	2.05	.41	0	.00	.00	.01	.00	.00	310	140

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)
JUL									
10...	2010	27	.5	16	1.3	12	1.2	.04	8.4

411858108545501 SALT WELLS CREEK ABOVE EAST SALT WELLS CREEK, NEAR SOUTH BAXTER, WY
(LAT 41 18 58 LONG 108 54 55)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO
MAR											
31...	1330	5.0	1330	8.5	5.0	750	480	120	110	130	2.1
AUG											
02...	1420	E10	1280	--	18.0	--	--	--	--	--	--
03...	1500	E75	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
MAR										
31...	9.7	319	4	268	650	68	.3	8.6	1260	1.71
AUG										
02...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR											
31...	17.0	.25	.00	.13	.09	.28	200	20	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	29200	5910	95

E Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411855108542401 EAST SALT WELLS CREEK AT HIGHWAY 436 BRIDGE NEAR SOUTH BAXTER, WY (LAT 41 18 55 LONG 108 54 24)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
AUG								
02...	1500	E3.0	1100	16.5	--	--	--	--
03...	1530	E110	875	15.0	5000	17300	5140	98

411900108545601 EAST SALT WELLS CREEK AT MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 19 00 LONG 108 54 56)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
MAR				
31...	1335	.03	6000	7.0

412000108565701 SALT WELLS CREEK ABOVE JOYCE CREEK, NEAR SOUTH BAXTER, WY (LAT 41 20 00 LONG 108 56 57)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
AUG					
05...	1600	E4.0	1600	25.0	500

412125108562501 SALT WELLS CREEK ABOVE PRETTY WATER CREEK, NEAR SOUTH BAXTER, WY (LAT 41 21 25 LONG 108 56 25)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
AUG								
05...	1545	E7.0	1680	25.0	900	1790	34	99

412126108562701 PRETTY WATER CREEK AT MOUTH, NEAR SOUTH BAXTER, WY (LAT 41 21 26 LONG 108 56 27)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
AUG								
05...	1535	E1.0	3200	24.0	400	1320	3.6	74

E Estimate.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

412130109025001 CIRCLE CREEK NEAR SALT WELLS, WY (LAT 41 21 30 LONG 109 02 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
AUG 05...	1300	3.0	2780	8.4	21.0	25	7.7	1.2	1400	1100	250	190

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
AUG 05...	160	1.9	17	343	0	281	1300	39	.8	16	2140	2.91

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
AUG 05...	.01	.00	.00	.02	.63	.41	.63	.43	.64	.04	.02	.01

DATE	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)
AUG 05...	.03	590	10	20	140	.7	157	1.3	99	55.6	.360	.000

PERIPHYTON ANALYSES

AUG. 5, 1976
1300 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....GYROSIGMA	
O	....NAVICULA	
	...NITZSCHIACEAE	
O	....CYLINDROTHECA	
O	....NITZSCHIA	
	...ACHNANTHACEAE	
E	....RHOICOSPHENIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	
	RHODOPHYTA	RED ALGAE
	.RHODOPHYCEAE	
	..NEMALIONALES	
	...CHANTRANSICACEAE	
O	....AUDOUINELLA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PICKED ROCKS, RANDOM
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

412130109025001 CIRCLE CREEK NEAR SALT WELLS, WY (LAT 41 21 30 LONG 109 02 50)

PHYTOPLANKTON ANALYSES

AUG. 5, 1976
1300 HOURS

IDENTIFICATION OF PHYTOPLANKTON

140 CELLS/ML

	ORGANISM NAME	COMMON NAME	CELLS/ML	PER CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OCCYSTACEAE			
	....ANKISTRODESMUS		5	4
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		25	19
	...NITZSCHIACEAE			
D	....NITZSCHIA		66	48
	...ACHNANTHACEAE			
	....RHOICOSPHENIA		10	7
	EUGLENOPHYTA	EUGLENOIDS		
	.EUGLENOPHYCEAE			
	..EUGLENALES			
	...EUGLENACEAE			
D	....TRACHELOMONAS		30	22

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 0.979
CLASS 0.979
ORDER 0.979
FAMILY 1.895
GENERA 1.895

413530108571501 SALT WELLS CREEK AT IRON CULVERT, NEAR ROCK SPRINGS, WY (LAT 41 35 30 LONG 108 57 15)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
AUG								
05...	1130	E20	2150	15.0	9000	28200	1520	99

415930109053001 DUNE POND NEAR SUPERIOR, WY (LAT 41 59 30 LONG 109 05 30)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
APR											
13...	1830	220	8.0	73	18	19	6.3	14	.7	3.6	68

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)
APR										
13...	56	48	1.0	.4	1.2	127	.17	.01	40	30

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

405500110350001 BLACKS FORK RIVER ABOVE MEEKS CABIN DAM, NEAR ROBERTSON, WY (LAT 40 55 00 LONG 110 35 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
AUG 23...	1500	E60	155	8.2	16.0	2	10.8	5.0	58	6	16

E Estimate.

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
AUG 23...	4.4	1.9	.1	.5	63	0	52	7.4	2.3	.1	3.5

DATE	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
AUG 23...	59	68	.09	11.0	.04	.01	.16	.07	1.2	.71	1.4

DATE	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)
AUG 23...	.78	1.4	.00	.00	.00	.00	1200	.5	333	.010	.000

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
AUG 23...	1500	140	0	0	0	100	200	9	<10	1

DATE	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
AUG 23...	0	0	10	3	250	70	<100	3	20	10

DATE	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG 23...	.0	.0	0	0	0	0	<10	0	10	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

405500110350001 BLACKS FORK RIVER ABOVE MEEKS CABIN DAM, NEAR ROBERTSON, WY (LAT 40 55 00 LONG 110 35 00)

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
AUG									
23...	1500	<.5	<.4	1.8	.4	1.4	<.4	.07	.10

PERIPHYTON ANALYSES

AUG. 23. 1976
1500 HOURS

IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME_______________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CHLOROCOCCALES	
	...OOCYSTACEAE	
O	....ANKISTRODESMUS	
	...SCENEDESMACEAE	
O	....SCENEDESMUS	
	..ULOTHRICHALES	
	...ULOTRICHACEAE	
O	....ULOTHRIX	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....COSMARIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...FRAGILARIACEAE	
O	....H.ARCUS	
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
E	....ACHNANTHES	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
O	....EPITHEMIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...EUNOTIACEAE	
O	....EUNOTIA	
	...FRAGILARIACEAE	
E	....FRAGILARIA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...MERIDIONACEAE	
O	....MERIDION	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....DIPLONEIS	
O	....FRUSTULIA	
O	....MASTOGLOIA	
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....DENTICULA	
O	....NITZSCHIA	
	...TABELLARIACEAE	
O	....TABELLARIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....LYNGBYA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....EUGLENA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING. 200-X MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

405500110350001 BLACKS FORK RIVER ABOVE MEEKS CABIN DAM, NEAR ROBERTSON, WY (LAT 40 55 00 LONG 110 35 00)

PHYTOPLANKTON ANALYSES

DATE	AUG 23.76
TIME	1500
TOTAL CELLS/ML	1200
DIVERSITY: DIVISION	0.2
.CLASS	0.2
..ORDER	0.5
...FAMILY	2.4
....GENUS	2.4

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ZYGNEMATALES		
...DESMIDIACEAE		
....CLOSTERIUM	*	0
....STAURASTRUM	48	4
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	48	4
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	530#	46
...CYMBELLACEAE		
....CYMBELLA	96	8
...FRAGILARIACEAE		
....SYNEDRA	140	13
...GOMPHONEMATACEAE		
....GOMPHONEMA	48	4
...NAVICULACEAE		
....NAVICULA	48	4
....PINNULARIA	*	0
...NITZSCHIACEAE		
...NITZSCHIACEAE		
....NITZSCHIA	190#	17

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

09221000 SMITHS FORK NEAR ROBERTSON, WY (LAT 41 08 12 LONG 110 25 48)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
SEP												
03...	1030	20	420	8.1	14.0	3	9.8	3.2	130	0	40	8.5

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
SEP												
03...	37	1.4	2.5	183	0	150	32	23	.3	9.0	250	243

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
SEP												
03...	.33	13.1	.06	.03	.09	.08	.61	.91	.70	.99	.76	.01

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)
SEP											
03...	.00	.01	.03	150	.2	20	1.1	87	1467	.015	.009

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN
09221000 SMITHS FORK NEAR ROBERTSON, WY (LAT 41 08 12 LONG 110 25 48)

DATE	TIME	TOTAL ALUMINUM (AL) (UG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
SEP										
03...	1030	390	0	2	2	100	0	100	<10	1

DATE	TOTAL CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)
SEP										
03...	0	0	<10	0	560	140	<100	1	50	20

DATE	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MOLYBDENUM (MO) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
SEP										
03...	.0	.0	2	3	0	0	<10	0	20	0

DATE	TIME	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DISSOLVED RA-226 (RADON METHOD) (PC/L)	DISSOLVED URANIUM (DIRECT FLUOROMETRIC) (PC/L)
SEP									
03...	1030	14	<.4	4.6	.9	3.9	.9	.11	4.3

PERIPHYTON ANALYSES
SEP. 3, 1976
1030 HOURS
IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..OEDOGONIALES	
	...OEDOGONIACEAE	
O	....OEDOGONIUM	
	..ULOTHRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
O	....COSMARIUM	
	...ZYGNEMATACEAE	
O	....SPIROGYRA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
O	....MELOSIRA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
E	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....CYMBELLA	
F	....EPITHEMIA	
O	....RHOPALODIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

09221000 SMITHS FORK NEAR ROBERTSON, WY (LAT 41 08 12 LONG 110 25 48)

PHYTOPLANKTON ANALYSES

DATE	SEP 3.76
TIME	1030
TOTAL CELLS/ML	150
DIVERSITY: DIVISION	1.1
.CLASS	1.1
..ORDER	1.6
...FAMILY	2.8
....GENUS	3.1

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..CHLOROCOCCALES		
...OOCYSTACEAE		
....DICTYOSPHAERIUM	43#	29
....OOCYSTIS	7	5
...SCENEDESMACEAE		
....SCENEDESMUS	14	10
..VOLVOCALES		
...CHLAMYDOMONADACEAE		
....CHLAMYDOMONAS	4	2
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..CENTRALES		
...COSCINODISCACEAE		
....CYCLOTELLA	14	10
..PENNALES		
...ACHNANTHACEAE		
....COCCONEIS	*	0
...CYMBELLACEAE		
....EPITHEMIA	25#	17
...FRAGILARIACEAE		
....FRAGILARIA	7	5
...GOMPHONEMATACEAE		
....GOMPHONEMA	4	2
...NAVICULACEAE		
....NAVICULA	11	7
....PINNULARIA	4	2
...NITZSCHIACEAE		
....NITZSCHIA	11	7
EUGLENOPHYTA (EUGLENOIDS)		
.EUGLENOPHYCEAE		
..EUGLENALES		
...EUGLENACEAE		
....TRACHELOMONAS	4	2

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN
09226000 HENRYS FORK NEAR LONETREE, WY (LAT 41 00 23 LONG 110 16 13)

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
AUG											
09...	1430	140	8.0	14.0	2	7.3	1.0	57	8	16	4.2

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
AUG											
09...	3.8	.2	2.0	60	0	49	13	2.7	.1	4.6	77

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
AUG											
09...	.10	.01	.10	.00	.39	.70	2.0	.70	2.4	.71	.01

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	BIOMASS CHLOROPHYLL RATIO PLANKTON (UNITS)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)
AUG											
09...	.01	.01	.03	20	90	20	110	.6	800	.030	.000

PERIPHYTON ANALYSES
AUG. 9, 1976
1430 HOURS
IDENTIFICATION OF PERIPHYTON

	_ORGANISM__NAME________________	_COMMON__NAME_______
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....COSCINODISCUS	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
E	....ACHNANTHES	
O	....COCCONEIS	
	...CYMBELLACEAE	
E	....CYMBELLA	
O	....EPITHEMIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...EUNOTIACEAE	
O	....EUNOTIA	
	...FRAGILARIACEAE	
E	....FRAGILARIA	
O	....HANNAEA	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...MERIDIONACEAE	
O	....MERIDION	
	...NAVICULACEAE	NAVICULOID
O	....FRUSTULIA	
O	....NAVICULA	
O	....NEIDIUM	
O	....PINNULARIA	
O	....STAURONEIS	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..OSCILLATORIALES	FILAMENTOUS
	...OSCILLATORIACEAE	
O	....OSCILLATORIA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
SAMPLING METHOD: PICKED ROCKS, RANDOM
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

09226000 HENRYS FORK NEAR LONETREE, WY (LAT 41 00 23 LONG 110 16 13)

PHYTOPLANKTON ANALYSES

DATE	AUG 9.76
TIME	1430
TOTAL CELLS/ML	110
DIVERSITY: DIVISION	0.0
.CLASS	0.0
..ORDER	0.0
...FAMILY	1.9
....GENUS	2.0

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....ACHNANTHES	5	4
....COCCONEIS	9	9
...CYMBELLACEAE		
....CYMBELLA	19#	17
...NAVICULACEAE		
....NAVICULA	39#	35
...NITZSCHIACEAE		
....NITZSCHIA	39#	35

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

411520107205001 LOCO CREEK NEAR MCCARY RANCH, NEAR SAVERY, WY (LAT 41 15 20 LONG 107 20 50)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JUL 17...	1030	E2.0	410	8.1	19.0	4	25.0	2.7	220	0	50	23

E Estimate.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
JUL 17...	27	.8	3.1	270	0	221	57	5.3	.4	9.9	309

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
JUL 17...	.42	1.67	.06	.10	.00	.00	.11	.21	.11	.21	.17

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JUL 17...	.01	.01	.01	.03	80	90	30	1200	1.0	37	62

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

411520107205001 LOCO CREEK NEAR MCCARY RANCH, NEAR SAVERY, WY (LAT 41 15 20 LONG 107 20 50)

PERIPHYTON ANALYSES

JULY 17, 1976
1030 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	..ULOTRICHALES	
	...CHAETOPHORACEAE	
O	....STIGEOCLONIUM	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....COCCONEIS	
	...CYMBELLACEAE	
O	....CYMBELLA	
E	....EPITHEMIA	
O	....RHOPALODIA	
	...DIATOMACEAE	
O	....DIATOMA	
	...EUNOTIACEAE	
O	....EUNOTIA	
	...FRAGILARIACEAE	
E	....SYNEDRA	
	...GOMPHONEMATACEAE	
O	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....CALONEIS	
O	....GYROSIGMA	
E	....NAVICULA	
O	....NEIDIUM	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....SURIRELLA	
	...ACHNANTHACEAE	
O	....RHOICOSPHENIA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..CHROOCOCCALES	COCCOID
	...CHROOCOCCACEAE	
O	....AGMENELLUM	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
O	....ANABAENA	
	...OSCILLATORIACEAE	
O	....LYNGBYA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....EUGLENA	

NOTE: E - ESTIMATED DOMINANT ORGANISM; NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM; NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING, 200-X MICROSCOPE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
GREEN RIVER BASIN

411520107205001 LOCO CREEK NEAR MCCARY RANCH, NEAR SAVERY, WY (LAT 41 15 20 LONG 107 20 50)
PHYTOPLANKTON ANALYSES

JULY 17, 1976
1030 HOURS
IDENTIFICATION OF PHYTOPLANKTON
1,200 CELLS/ML

	_ORGANISM__NAME	_COMMON__NAME	CELLS/ML	PER_CENT
	CHLOROPHYTA	GREEN ALGAE		
	.CHLOROPHYCEAE			
	..CHLOROCOCCALES			
	...OCCYSTACEAE			
	....OOCYSTIS		27	2
	..VOLVOCALES			
	...PHACOTACEAE			
	....PHACOTUS		13	1
	..ZYGNEMATALES			
	...DESMIDIACEAE	PLACODERM DESMIDS		
	....CLOSTERIUM		13	1
	CHRYSOPHYTA			
	.BACILLARIOPHYCEAE	DIATOMS		
	..PENNALES	PENNATE		
	...ACHNANTHACEAE			
	....COCCONEIS		40	3
	...CYMBELLACEAE			
D	....EPITHEMIA		210	18
	...FRAGILARIACEAE			
L	....FRAGILARIA			0
D	....SYNEDRA		200	17
	...GOMPHONEMATACEAE			
	....GOMPHONEMA		66	6
	...NAVICULACEAE	NAVICULOID		
D	....NAVICULA		210	18
	...NITZSCHIACEAE			
	....NITZSCHIA		93	8
	...ACHNANTHACEAE			
	....RHOICOSPHENIA		13	1
	CYANOPHYTA	BLUE-GREEN ALGAE		
	.MYXOPHYCEAE			
	..CHROOCOCCALES	COCCOID		
	...CHROOCOCCACEAE			
D	....AGMENELLUM		270	23
	....ANACYSTIS		13	1

NOTE: D - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%
L - LESS THAN 1%; MAY NOT HAVE BEEN ACTUALLY COUNTED
ANALYSIS METHOD: SEDGWICK-RAFTER CHAMBER, 200-X MICROSCOPE
DIVERSITY INDICES, BASED ON ACTUAL COUNTS:
PHYL/DIV 1.041
CLASS 1.041
ORDER 1.109
FAMILY 2.859
GENERA 2.925

09255500 SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY (LAT 41 13 05 LONG 107 22 18)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JUL 17...	0900	E40	310	8.2	17.0	3	6.7	1.9	160	20	49	8.4

E Estimate.

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
JUL 17...	6.2	.2	2.3	167	0	137	25	2.1	.4	13	189	.26

DATE	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JUL 17...	20.4	.01	.01	.00	.00	.21	.88	.21	.88	.22	.04

DATE	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JUL 17...	.01	.03	.09	30	70	10	510	.6	16	1.7	66

GREEN RIVER BASIN

09255500 SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY (LAT 41 13 05 LONG 107 22 18)

PERIPHYTON ANALYSES

JULY 17. 1976
0900 HOURS

IDENTIFICATION OF PERIPHYTON

	ORGANISM NAME	COMMON NAME
	CHLOROPHYTA	GREEN ALGAE
	.CHLOROPHYCEAE	
	..CLADOPHORALES	
	...CLADOPHORACEAE	
E	....CLADOPHORA	
	..VOLVOCALES	
	...PHACOTACEAE	
O	....PHACOTUS	
	..ZYGNEMATALES	
	...DESMIDIACEAE	PLACODERM DESMIDS
O	....CLOSTERIUM	
O	....COSMARIUM	
	...ZYGNEMATACEAE	
O	....MOUGEOTIA	
	CHRYSOPHYTA	
	.BACILLARIOPHYCEAE	DIATOMS
	..CENTRALES	CENTRIC
	...COSCINODISCACEAE	
O	....CYCLOTELLA	
	..PENNALES	PENNATE
	...ACHNANTHACEAE	
O	....ACHNANTHES	
E	....COCCONEIS	
O	....RHOICOSPHENIA	
	...CYMBELLACEAE	
O	....AMPHORA	
O	....CYMBELLA	
O	....EPITHEMIA	
O	....RHOPALODIA	
	...DIATOMACEAE	
E	....DIATOMA	
	...FRAGILARIACEAE	
O	....SYNEDRA	
	...GOMPHONEMATACEAE	
E	....GOMPHONEMA	
	...NAVICULACEAE	NAVICULOID
O	....NAVICULA	
O	....PINNULARIA	
	...NITZSCHIACEAE	
O	....NITZSCHIA	
	...SURIRELLACEAE	
O	....CYMATOPLEURA	
O	....SURIRELLA	
	CYANOPHYTA	BLUE-GREEN ALGAE
	.MYXOPHYCEAE	
	..CHROOCOCCALES	COCCOID
	...CHROOCOCCACEAE	
O	....ANACYSTIS	
	..OSCILLATORIALES	FILAMENTOUS
	...NOSTOCACEAE	
E	....NOSTOC	
	...OSCILLATORIACEAE	
O	....LYNGBYA	
	EUGLENOPHYTA	EUGLENOIDS
	.EUGLENOPHYCEAE	
	..EUGLENALES	
	...EUGLENACEAE	
O	....EUGLENA	

NOTE: E - ESTIMATED DOMINANT ORGANISM: NOT ACTUALLY COUNTED
O - OBSERVED ORGANISM: NOT ACTUALLY COUNTED
ANALYSIS METHOD: SLIDE MOUNTING. 200-X MICROSCOPE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

GREEN RIVER BASIN

09255500 SAVERY CREEK AT UPPER STATION, NEAR SAVERY, WY (LAT 41 13 05 LONG 107 22 18)

PHYTOPLANKTON ANALYSES

DATE		JUL 17,76
TIME		0900
TOTAL CELLS/ML		510
DIVERSITY:	DIVISION	0.0
	.CLASS	0.0
	..ORDER	0.0
	...FAMILY	2.0
	....GENUS	2.0

ORGANISM	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)		
.CHLOROPHYCEAE		
..ZYGNEMATALES		
...DESMIDIACEAE		
....COSMARIUM	*	0
CHRYSOPHYTA		
.BACILLARIOPHYCEAE		
..PENNALES		
...ACHNANTHACEAE		
....RHOICOSPHENIA	23	5
...CYMBELLACEAE		
....EPITHEMIA	46	9
...DIATOMACEAE		
....DIATOMA	69	14
...GOMPHONEMATACEAE		
....GOMPHONEMA	23	5
...NAVICULACEAE		
....NAVICULA	69	14
...NITZSCHIACEAE		
....NITZSCHIA	280#	55

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

BENTHIC INVERTEBRATE ANALYSES

DATE		JUL 17,76
TIME		0900
TOTAL COUNT		188
DIVERSITY:	PHYLUM	0.0
	.CLASS	0.1
	..ORDER	1.4
	...FAMILY	2.2
	....GENUS	2.4
	....GENUS-INSECTA	2.4

ORGANISM	COUNT
ARTHROPODA (ARTHROPODS)	
.ARACHNOIDEA	
..HYDRACARINA	
...UNKNOWN FAMILY	
....UNKNOWN GENUS	2
.INSECTA	
..COLEOPTERA	
...DRYOPIDAE	
....HELICHUS	2
...ELMIDAE	
....MICROCYLLOEPUS	2
..DIPTERA	
...RHAGIONIDAE	
....ATHERIX	5
..EPHEMEROPTERA	
...BAETIDAE	
....BAETIS	12
...EPHEMERELLIDAE	
....EPHEMERELLA	3
...EPHEMERIDAE	
....UNKNOWN GENUS	1
...HEPTAGENIIDAE	
....EPEORUS	2
..PLECOPTERA	
...PTERONARCIDAE	
....PTERONARCELLA	24
....PTERONARCYS	3
..TRICHOPTERA	
...BRACHYCENTRIDAE	
....BRACHYCENTRUS	98
...HYDROPSYCHIDAE	
....CHEUMATOPSYCHE	10
....HYDROPSYCHE	22
...HYDROPTILIDAE	
....OCHROTRICHIA	2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
SNAKE RIVER BASIN

13010070 SNAKE RIVER AT FLAGG RANCH, NEAR COLTER BAY VILLAGE, WY (LAT 44 05 57 LONG 110 40 00)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
NOV 04...	1300	383	260	7.2	6.0	--	--	--	--	54	0	17
JUN 27...	0820	2300	120	7.3	6.5	--	9.4	3.7	B8	36	0	11
JUL 24...	1900	680	200	7.6	21.0	1	7.1	2.2	B4	48	0	15
AUG 21...	1530	430	250	8.0	17.5	1	8.3	2.1	B1	61	0	19

B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
NOV 04...	2.8	29	1.7	4.3	83	0	68	24	17	2.3	33
JUN 27...	2.1	9.8	.7	1.7	48	--	39	9.1	4.2	.8	18
JUL 24...	2.5	17	1.1	3.5	67	--	55	18	10	1.4	26
AUG 21...	3.2	22	1.2	3.9	79	--	65	24	13	1.9	30

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	PHOS-PHATE (PO4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
NOV 04...	170	.23	176	--	.00	.05	.00	--	--	0	7.1
JUN 27...	80	.11	--	1	--	.08	.03	.09	.01	60	2.3
JUL 24...	127	.17	--	0	.06	.57	.01	.03	.02	70	1.8
AUG 21...	156	.21	--	2	.08	.62	.00	.00	.00	20	1.6

440637110410801 POLECAT CREEK NEAR HUCKLEBERRY HOT SPRINGS, WY (LAT 44 06 37 LONG 110 41 08)

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
AUG 22...	0800	100	150	7.5	13.0	1	7.8	1.4	48	15	0

DATE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)
AUG 22...	4.5	.8	20	2.3	4.1	43	35	4.8	13	2.9	53

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	PHOS-PHATE (PO4) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
AUG 22...	125	.17	33.8	1	.08	.34	.00	.00	.01	20	1.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
SNAKE RIVER BASIN

13010170 POLECAT CREEK NEAR FLAGG RANCH, WY (LAT 44 06 31 LONG 110 41 00)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
NOV												
04...	1500	56	230	7.7	15.0	--	--	--	--	24	0	7.9
JUN												
27...	0900	133	125	7.3	13.0	3	9.1	2.3	20	11	0	3.5
JUL												
25...	1030	109	150	7.5	17.0	2	8.0	2.0	B14	14	0	4.6
AUG												
21...	1810	105	165	7.9	22.0	1	7.5	2.8	B15	15	0	4.9

B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
NOV											
04...	1.1	40	3.5	4.7	83	0	68	4.8	21	3.2	58
JUN											
27...	.6	21	2.7	3.0	46	--	38	4.2	9.3	2.2	5.0
JUL											
25...	.5	21	2.5	4.3	50	--	41	5.2	12	2.7	49
AUG											
21...	.7	23	2.6	4.0	48	--	39	5.1	14	2.9	54

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHATE (PO4) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
NOV											
04...	182	.25	27.5	--	.00	.04	.02	--	--	20	1.7
JUN											
27...	72	.10	25.9	1	--	.20	.03	.09	.01	20	1.3
JUL											
25...	124	.17	36.5	3	.06	.14	.02	.06	.04	40	1.9
AUG											
21...	133	.18	37.7	0	.06	.32	.01	.03	.01	30	1.2

13010200 SNAKE RIVER ABOVE JACKSON LAKE, NEAR FLAGG RANCH, WY (LAT 44 05 21 LONG 110 41 38)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
NOV												
04...	1615	440	250	7.5	8.0	--	--	--	--	49	0	15
JUN												
27...	0950	2430	125	7.4	6.5	5	9.4	2.7	B4	31	0	9.3
JUL												
24...	1745	789	190	7.3	21.5	1	7.3	3.8	B2	--	--	--
AUG												
21...	1700	535	240	8.0	18.5	1	8.1	5.8	B1	50	0	16

B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
NOV											
04...	2.8	31	1.9	4.3	80	0	66	21	18	2.3	36
JUN											
27...	1.8	12	.9	1.9	48	--	39	9.4	4.8	.9	20
JUL											
24...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	2.5	23	1.4	3.9	63	--	52	22	13	2.0	34

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHATE (PO4) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
NOV											
04...	170	.23	202	--	.00	.12	.01	--	--	10	1.8
JUN											
27...	84	.11	551	4	--	.25	.02	.06	.01	40	2.3
JUL											
24...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	148	.20	214	3	.07	.50	.08	.08	.02	30	11

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SNAKE RIVER BASIN

435325110374501 SWAN LAKE TRIBUTARY AT SWAN LAKE, GRAND TETON NATIONAL PARK, WY (LAT 43 53 25 LONG 110 37 45)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT									
16...	1500	2.0	100	7.5	6.0	38	0	11	2.5

DATE	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT									
16...	4.9	.3	.9	50	0	41	1.4	3.8	.1

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
OCT									
16...	7.3	57	.08	.31	.04	.49	.03	250	7.5

13012500 SPREAD CREEK NEAR MORAN, WY (LAT 43 47 26 LONG 110 32 14)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
JUN											
27...	1430	200	180	8.0	14.0	9	8.4	2.7	86	82	0
JUL											
25...	1230	35	250	8.0	18.5	3	7.3	4.7	31	110	0
AUG											
21...	1400	25	280	8.1	17.5	1	8.1	2.3	B3	140	7

B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
JUN											
27...	24	5.3	3.3	.2	.9	104	85	6.3	1.3	.1	7.7
JUL											
25...	34	6.6	4.7	.2	1.4	139	114	6.7	1.5	.2	8.4
AUG											
21...	40	8.6	4.6	.2	1.4	157	129	9.1	.5	.2	8.3

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHATE (PO4) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
JUN											
27...	100	.14	54.0	18	--	.30	.03	.09	.01	10	2.8
JUL											
25...	132	.18	12.5	0	.07	.43	.01	.03	.01	20	3.0
AUG											
21...	150	.20	10.1	2	.08	.42	.00	.00	.00	30	1.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
SNAKE RIVER BASIN

433955110421401 SNAKE RIVER ABOVE MOOSE, WY (LAT 43 39 55 LONG 110 42 14)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
NOV 05...	1500	930	195	7.2	6.0	--	--	--	--	86	1	26
JUN 26...	1400	5550	115	7.6	11.0	6	8.1	4.0	B7	49	4	15
JUL 24...	1200	5350	90	7.3	16.0	1	7.3	3.4	21	28	0	8.9
AUG 21...	1130	4950	140	7.7	15.0	1	8.5	2.4	B10	51	2	15

B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
NOV 05...	5.1	8.1	.4	1.8	103	0	84	8.3	3.4	.4	15
JUN 26...	2.8	4.4	.3	1.4	55	--	45	6.0	1.9	.3	12
JUL 24...	1.5	3.4	.3	1.6	37	--	30	7.3	2.6	.3	6.9
AUG 21...	3.2	7.6	.5	1.7	59	--	48	8.8	4.1	.7	13

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHATE (PO4) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
NOV 05...	119	.16	299	--	.00	.05	.03	--	--	0	2.8
JUN 26...	71	.10	1060	1	--	.38	.03	.09	.02	30	1.6
JUL 24...	51	.07	737	3	.06	.69	.03	.09	.01	10	9.7
AUG 21...	83	.11	1110	3	.06	.46	.00	.00	.01	10	2.2

433902110430601 SNAKE RIVER BELOW MOOSE, WY (LAT 43 39 02 LONG 110 43 06)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
NOV 05...	1625	990	175	7.5	6.0	--	--	--	--	96	6	29
JUN 26...	1530	5610	140	7.8	12.0	--	8.5	3.2	B3	54	1	16
JUL 24...	1330	5410	130	7.6	17.5	3	7.6	2.5	B11	46	0	14
AUG 21...	1245	5010	160	7.8	16.0	1	8.5	2.1	B7	56	0	17

B Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)
NOV 05...	5.7	8.4	.4	1.9	110	0	90	9.9	3.4	.4	15
JUN 26...	3.3	5.3	.3	1.5	64	--	53	6.4	1.8	.4	14
JUL 24...	2.6	6.6	.4	1.9	61	--	50	6.9	4.2	.5	14
AUG 21...	3.2	8.3	.5	1.9	70	--	57	9.0	4.5	.7	14

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	PHOSPHATE (PO4) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)
NOV 05...	128	.17	342	--	.01	.12	.00	--	--	0	2.3
JUN 26...	80	.11	1210	7	--	.10	.03	.09	--	40	2.1
JUL 24...	81	.11	1180	4	.04	.60	.02	.06	.02	20	2.1
AUG 21...	93	.13	1260	3	.07	.65	.00	.00	.00	30	2.1

CARBON COUNTY

414650107254501. Local number, 21N 089W 22ada01.

LOCATION.--Lat 41°46'50", long 107°25'45", in NE¼SE¼NE¼ sec.22, T.21 N., R.89 W., Hydrologic Unit 14040200.

Owner: U.S. Bureau of Land Management.

AQUIFER.--Fort Union Formation.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 4 in (10 cm), depth 156 ft (47.5 m), cased.

DATUM.--Altitude of land-surface datum is about 6,705 ft (2,044 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

PERIOD OF RECORD.--July 1963, April 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.02 ft (10.98 m) below land-surface datum, May 13, 1976; lowest, 42.64 ft (13.00 m) below land-surface datum, July 18, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL
NOV 5	36.87
JAN 20	36.09
MAY 13	36.02

LINCOLN COUNTY

415442110571801. Local number, 22N 119W 05cda01.

LOCATION.--Lat 41°54'42", long 110°57'18", in NE¼SE¼SW¼ sec.5, T.22 N., R.119 W., Hydrologic Unit 16010101.

Owner: Doyle Knouse.

AQUIFER.--Terrace deposits of Bear River.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 12 in (30 cm), depth 250 ft (76.2 m), cased, perforated 40-250 ft (12.2-76.2 m).

DATUM.--Altitude of land-surface datum is about 6,227 ft (1,898 m). Measuring point: Top of west side of airline plug, 0.50 ft (0.15 m) above land-surface datum.

PERIOD OF RECORD.--April 1959, April 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 29.26 ft (8.92 m) below land-surface datum, Aug. 26, 1975; lowest, 39.18 ft (11.94 m) below land-surface datum, Apr. 17, 1962.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 6	30.62	DEC 5	33.56
NOV 6	32.55	JAN 20	34.98

415557110571502. Local number, 23N 119W 32bda02.

LOCATION.--Lat 41°55'57", long 110°57'15", in NE¼SE¼NW¼ sec.32, T.23 N., R.119 W., Hydrologic Unit 16010101.

Owner: Thornock Bros.

AQUIFER.--Terrace deposits of Bear River.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (41 cm), depth 230 ft (70.1 m), cased.

DATUM.--Altitude of land-surface datum is about 6,211 ft (1,893 m). Measuring point: Top of casing, 0.40 ft (0.12 m) above land-surface datum.

PERIOD OF RECORD.--April 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.48 ft (3.80 m) below land-surface datum, Aug. 9, 1972; lowest, 30.30 ft (9.24 m) below land-surface datum, Apr. 7, 1962.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL
JAN 20	28.39
JUN 10	19.61

420202110560201. Local number, 24N 119W 28aca01.

LOCATION.--Lat 42°02'02", long 110°56'02", in NE¼SW¼NE¼ sec.28, T.24 N., R.119 W., Hydrologic Unit 16010102.

Owner: Herman Teichert.

AQUIFER.--Terrace deposits of Bear River.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (41 cm), depth 230 ft (70.1 m), cased, perforated 0-220 ft (0-67.1 m).

DATUM.--Altitude of land-surface datum is about 6,195 ft (1,888 m). Measuring point: Hole inside east side of pump shell, 0.20 ft (0.06 m) above land-surface datum.

PERIOD OF RECORD.--April 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.44 ft (2.88 m) below land-surface datum, July 9, 1971; lowest, 18.24 ft (5.56 m) below land-surface datum, Mar. 26, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL
DEC 5	16.43
JAN 20	16.99
JUN 10	10.24

SUBLETTE COUNTY

423504110053001. Local number, 30N 111W 17aca01.
LOCATION.--Lat 42°35'04", long 110°05'30", in NE¼SW¼NE¼ sec.17, T.30 N., R.111 W., Hydrologic Unit 14040101.
Owner: Sublette County.
AQUIFER.--Wasatch Formation.
WELL CHARACTERISTICS.--Drilled public-service artesian well, diameter 8 in (20 cm), depth 435 ft (132.6 m), cased.
DATUM.--Altitude of land-surface datum is about 6,880 ft (2,097 m). Measuring point: Hole in board over casing, 6.00 ft (1.83 m) below land-surface datum.
PERIOD OF RECORD.--April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.13 ft (5.53 m) below land-surface datum, Aug. 6, 1971; lowest, 22.12 ft (6.74 m) below land-surface datum, Nov. 9, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL
NOV 4	19.56
JAN 19	20.15
JUL 29	19.54

430118110071001. Local number, 35N 111W 08adb01.
LOCATION.--Lat 43°01'18", long 110°07'10", in NW¼SE¼NE¼ sec.8, T.35 N., R.111 W., Hydrologic Unit 14040101.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1 in (3 cm), depth 39 ft (11.9 m), slotted pipe 30-39 ft (9.1-11.9 m).
DATUM.--Altitude of land-surface datum is about 7,500 ft (2,286 m). Measuring point: Top of pipe, 3.00 ft (0.91 m) above land-surface datum.
PERIOD OF RECORD.--April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.65 ft (1.42 m) below land-surface datum, Apr. 27, 1965; lowest, 7.05 ft (2.15 m) below land-surface datum, July 25, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL
NOV 4	6.27
JAN 24	6.24
JUL 27	6.44

UINTA COUNTY

411600110243301. Local number, 15N 115W 20cba01.
LOCATION.--Lat 41°16'00", long 110°24'33", in NE¼NW¼SW¼ sec.20, T.15 N., R.115 W., Hydrologic Unit 14040107.
Owner: School District.
AQUIFER.--Alluvium of terrace along Blacks Fork.
WELL CHARACTERISTICS.--Dug unused water-table well, diameter 24 in (61 cm), depth 17 ft (5.2 m), cased with tile.
DATUM.--Altitude of land-surface datum is about 6,940 ft (2,115 m). Measuring point: Top of concrete cover, 1.00 ft (0.30 m) above land-surface datum.
PERIOD OF RECORD.--April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.16 ft (0.05 m) above land-surface datum, July 4, 1971; lowest, 11.34 ft (3.46 m) below land-surface datum, Mar. 28, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	3.98	JAN 21	7.07
NOV 7	3.54	MAR 1	8.38
DEC 5	4.46		

412248111020301. Local number, 16N 121W 11acc01.
LOCATION.--Lat 41°22'48", long 111°02'03", in SW¼SW¼NE¼ sec.11, T.16 N., R.121 W., Hydrologic Unit 16010101.
Owner: Elwin Sessions.
AQUIFER.--Terrace deposits.
WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 48± in (122± cm), depth 34 ft (10.4 m), cribbed with rock.
DATUM.--Altitude of land-surface datum is about 6,575 ft (2,004 m). Measuring point: Top of corrugated casing, 3.30 ft (1.01 m) above land-surface datum (since Mar. 4, 1970).
PERIOD OF RECORD.--November 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.19 ft (3.72 m) below land-surface datum, June 8, 1970; lowest, 29.12 ft (8.88 m) below land-surface datum, Mar. 15, 1973.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL
DEC 5	25.30
JAN 20	25.28
MAR 2	26.99

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

LINCOLN COUNTY

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	SITE	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	SAMP-LING DEPTH (FT)	INSTAN-TANEOUS DIS-CHARGE (CFS)	INSTAN-TANEOUS FLOW RATE (GPM)
420123110025201	24N 111W 30DD 01	124EOCN	SP	76-08-18	1200	.00	--	--	--
421540110114101	26N 112W 06ACC01	124WSTC	GW	76-08-20	1430	92	--	--	--
421554110112901	26N 112W 06ACD01	124WSTC	GW	76-08-20	1500	85	--	--	--
421551110120701	26N 112W 06BCD01	111ALVM	GW	76-08-20	1800	55	--	--	--
421501110115001	26N 112W 07BCD01	124WSTC	GW	76-08-20	1700	265	--	--	--
421259110102901	26N 112W 20DDB01	111ALVM	GW	76-08-20	1045	75	--	--	--
421258110100401	26N 112W 21CCB01	124WSTC	GW	76-08-20	1045	300	--	--	--
421154110095801	26N 112W 33BBA01	111ALVM	GW	76-08-20	1300	10	--	--	--
421155110100301	26N 112W 33BBA02	111ALVM	GW	76-08-20	1300	1.0	--	--	--

SUBLETTE COUNTY

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	SITE	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	SAMP-LING DEPTH (FT)	INSTAN-TANEOUS DIS-CHARGE (CFS)	INSTAN-TANEOUS FLOW RATE (GPM)
421847109512101	27N 109W 18CCB01	124LNEY	GW	76-08-21	1230	205	--	--	--
422034109580301	27N 110W 06CDD01	124LNEY	GW	76-08-21	1130	725	--	--	--
421653110060101	27N 112W 32BCA01	124WSTC	GW	76-08-18	1630	--	600	--	100
422215110081301	28N 112W 34AB 01	124WSTC	GW	76-07-24	1605	600	600	--	--
422120110075401	29N 112W 34AB 02	124WSTC	GW	76-07-24	1600	400	--	--	--
422133110085201	28N 112W 34CC 01	124WSTC	GW	76-07-24	1620	600	600	--	--
422123110081401	28N 112W 34DBA01	111ALVM	GW	76-07-24	1545	59	16	--	--
422123110081402	28N 112W 34DBA02	111ALVM	GW	76-07-24	1630	59	16	--	--
422206110073801	28N 112W 35BC 01	124WSTC	GW	76-07-24	1610	450	450	--	--
422953109352001	29N 107W 10BDD01	124WSTC	GW	76-08-21	1730	70	--	--	--

SWEETWATER COUNTY

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	SITE	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	SAMP-LING DEPTH (FT)	INSTAN-TANEOUS DIS-CHARGE (CFS)	INSTAN-TANEOUS FLOW RATE (GPM)
410511109024701	13N 103W 19DDC01	124TPTN	SP	76-09-21	1600	--	--	--	3.0
411335108501501	14N 103W 02AAC01	211ALMD	SP	76-03-23	1145	.00	--	.01	--
413246108425900	18N 100W 08CCA01	211RKSP	GW	76-04-13	1130	--	--	E.60	--
413507109132501	19N 105W 35BDA01	211RKSP	GW	76-08-04	1100	--	100	--	--
		211RKSP	GW	76-08-04	1130	--	--	--	--
414416107325901	20N 090W 05DAB01	125FRUN	GW	76-04-20	1315	1740	--	--	--
414100107323301	20N 090W 28BCD01	111ALVM	GW	76-05-06	1200	22	22	--	--
413958107310001	20N 090W 34ACC01	--	SP	76-04-14	0915	--	--	--	--
413940107365301	20N 091W 35CAA01	--	GW	76-04-14	1330	--	--	--	--
415638108125801	23N 096W 25BBA01	124WSTC	GW	76-05-20	1025	2250	--	E.10	--
415814109290601	23N 107W 13ACC01	124TPTN	GW	76-07-26	1045	1029	1005	--	--
415814109340101	23N 107W 17BD 01	124LNEY	GW	76-07-26	1430	228	170	--	--
415817109361001	23N 108W 13BDD01	124WSTC	GW	76-01-29	1130	--	--	1.0	--
420425107312301	24N 090W 11AAA01	124BSPG	SP	76-05-21	0845	.00	--	--	--
420340107542302	24N 093W 10CDA04	124BSPG	GW	76-09-03	1200	340	340	--	--
420334107541901	24N 093W 10CDB01	124BSPG	GW	76-08-25	1200	250	265	--	400
420228108005001	24N 094W 22C 01	124BSPG	GW	76-06-04	1700	--	--	--	--
420419109235101	24N 106W 11CB 01	124LNEY	GW	76-07-22	1200	38	38	--	--
420350109250301	24N 106W 15BBB01	124WSTC	GW	76-07-29	1200	1250	--	--	--
420319109250101	24N 106W 15CBC01	124LNEY	GW	76-07-28	1100	23	3.8	--	--
420315109250101	24N 106W 15CCB01	--	GW	76-07-28	1100	1020	--	--	--
420217109245701	24N 106W 20CDA01	--	GW	76-08-04	1730	--	--	--	--
420301109290101	24N 107W 24ABA01	124TPTN	GW	76-08-04	1615	--	1000	--	--
430116109325001	24N 107W 33BAB01	124LNEY	SP	76-01-29	1300	.00	--	1.0	--
420812107363801	25N 090W 17CAD01	124BSPG	SP	76-06-05	1530	.00	--	--	--
420655109205701	25N 105W 28BBD01	124LNEY	GW	76-07-27	1230	75	--	--	--
420532109232001	25N 105W 31CC 01	124LNEY	GW	76-07-27	1030	181	--	--	--
421013109294702	25N 106W 02ADD02	--	GW	76-07-31	1040	--	15	--	--
421034109254101	25N 106W 02BBB01	124CDBF	GW	76-08-21	1100	860	--	--	--
420947109245301	25N 106W 02DDC01	124TPTN	GW	76-07-31	1500	1250	1250	--	--
420915109281101	25N 106W 04CBB01	124CDBF	GW	76-08-23	1400	986	--	--	--
420951109272901	25N 106W 04DCA01	124CDBF	GW	76-08-23	1500	1063	--	--	--
420947109231301	25N 106W 06CDC01	124TPTN	GW	76-07-31	1430	900	--	--	--
420849109253401	25N 106W 14BAB01	124TPTN	GW	76-08-01	1100	--	1100	--	--
420801109262601	25N 106W 15DCC01	--	GW	76-08-23	1030	--	--	--	--
420716109281601	25N 106W 20DDA01	124WSTC	GW	76-07-28	1600	1620	1620	--	--
420710109255001	25N 106W 23CCC01	124TPTN	GW	76-07-29	1500	1120	--	--	--
420645109263901	25N 106W 27BC 01	124LNEY	GW	76-07-27	1515	80	--	--	--
420644109265101	25N 106W 27BC 02	124LNEY	GW	76-07-27	1515	120	--	--	--
420646109264901	25N 106W 27BC 03	124TPTN	GW	76-07-27	1500	1480	--	--	--
420646109264902	25N 106W 27BC 04	124LNEY	GW	76-07-27	1500	500	--	--	--
421005109315901	25N 107W 02DAB01	--	GW	76-07-31	1230	--	--	--	--
420710109315601	25N 107W 23DDC01	124WSTC	GW	76-07-28	1400	1365	1365	--	--
421447107375201	26N 091W 11BBA01	124BSPG	SP	76-05-21	1205	.00	--	E1.0	--
421042108254001	26N 097W 32DC 01	124CDBF	SP	76-06-05	1000	.00	--	--	--
421134109090401	26N 103W 30CDD01	124WSTC	GW	76-07-25	1400	1000	--	--	--
421346110152201	26N 104W 16DCC01	124LNEY	GW	76-07-23	1400	200	53	--	--
421055109271201	26N 106W 33DA 01	124CDBF	GW	76-07-29	1630	1100	--	--	--
421515109501801	26N 109W 05CBC01	124LNEY	GW	76-08-21	1200	349	--	--	--
421554108122501	27N 095W 31DCD01	124EOCN	GW	76-06-05	1207	.00	--	--	--

E Estimate.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

LINCOLN COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
420123110025201	76-08-18	820	7.6	13.0	--	--	270	130	76	19	60
421540110114101	76-08-20	2050	--	18.0	--	--	570	150	46	110	290
421554110112901	76-08-20	1600	--	12.0	--	--	150	0	17	27	300
421551110120701	76-08-20	2200	--	21.0	--	--	730	430	79	130	250
421501110115001	76-08-20	3400	--	12.0	--	--	410	200	67	60	450
421259110102901	76-08-20	560	--	18.0	--	--	280	19	74	22	18
421258110100401	76-08-20	2600	--	17.0	--	--	12	0	2.5	1.3	590
421154110095801	76-08-20	700	--	17.0	--	--	379	36	94	33	18
421155110100301	76-08-20	700	--	16.5	--	--	350	36	86	32	15

SUBLETTE COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
421847109512101	76-08-21	1500	--	10.5	--	--	4	0	.8	.4	390
422034109580301	76-08-21	2000	--	13.0	--	--	180	0	16	34	440
421653110060101	76-08-18	1200	9.3	11.5	--	--	9	0	1.9	1.0	250
422215110081301	76-07-24	1400	9.4	16.0	--	--	4	0	1.1	.4	250
422120110075401	76-07-24	1500	9.4	13.0	--	--	9	0	2.6	.6	260
422133110085201	76-07-24	2600	9.3	13.0	--	--	7	0	1.6	.7	390
422123110081401	76-07-24	1250	8.9	13.0	--	--	12	0	2.5	1.4	250
422123110081402	76-07-24	1050	7.0	6.5	--	--	380	0	98	33	35
422206110073801	76-07-24	1350	9.4	13.0	--	--	3	0	.9	.3	240
422953109352001	76-08-21	1250	--	10.0	--	--	10	0	3.5	.4	260

SWEETWATER COUNTY--Continued

STATION NUMBER	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
410511109024701	76-09-21	1190	8.1	17.5	--	--	450	46	72	66	110
411335108581501	76-03-23	1450	8.4	2.0	12	--	780	500	130	110	29
413246108425900	76-04-13	1580	6.5	16.0	--	--	820	660	200	79	47
413507109132501	76-08-04	8000	--	15.0	--	--	3900	3100	520	640	1800
	76-08-04	>8000	6.6	15.0	--	3.0	--	--	--	--	--
414416107325901	76-04-20	1050	8.8	11.0	--	--	70	0	19	5.4	190
414100107323301	76-05-06	>8000	7.1	10.0	--	--	6400	5900	570	1200	870
413958107310001	76-04-14	1520	7.2	9.0	50	--	950	490	240	84	20
413940107365301	76-04-14	1080	7.5	8.0	150	--	650	280	130	80	12
415638108125801	76-05-20	1850	8.4	23.5	0	.4	12	0	3.6	.7	420
415814109290601	76-07-26	2100	9.6	16.0	--	--	3	0	1.0	.2	420
415814109340101	76-07-26	8500	7.6	12.0	--	--	1200	840	160	200	1100
415817109361001	76-01-29	1150	--	18.0	--	--	11	0	1.7	1.6	290
420425107312301	76-05-21	600	7.4	9.5	50	3.3	220	0	73	10	35
420340107542302	76-09-03	270	8.5	9.0	--	--	46	0	17	.8	37
420334107541901	76-08-25	645	7.9	11.5	1	1.8	230	120	85	4.3	40
420228108005001	76-06-04	265	9.5	--	--	--	5	0	1.7	.1	54
420419109235101	76-07-22	680	7.9	5.5	--	--	270	53	57	30	60
420350109250301	76-07-29	1500	9.6	16.5	--	--	6	0	1.0	.8	300
420319109250101	76-07-28	1750	7.7	12.5	--	--	540	140	89	77	99
420315109250101	76-07-28	1650	9.7	17.0	--	--	7	0	2.0	.4	300
420217109245701	76-08-04	1100	--	18.0	--	--	4	0	1.3	.3	230
420301109290101	76-08-04	23	--	15.0	--	1250	4	0	1.3	.3	230
430116109325001	76-01-29	3100	--	6.0	--	--	1300	1000	290	130	270
420812107363801	76-06-05	360	8.9	19.5	--	--	110	0	38	4.4	17
420655109205701	76-07-27	2000	7.7	19.0	--	--	260	130	61	27	290
420532109232001	76-07-27	1900	8.4	14.0	--	--	74	0	20	5.9	330
421013109294702	76-07-31	440	8.1	9.0	--	--	150	8	43	11	23
421034109254101	76-08-21	1600	9.4	14.5	--	--	2	0	.5	.3	380
420947109245301	76-07-31	870	9.2	17.0	--	--	6	0	1.9	.3	170
420915109281101	76-08-23	1050	9.3	10.5	--	--	4	0	1.2	.3	240
420951109272901	76-08-23	950	9.2	16.0	--	--	3	0	.8	.3	210
420947109231301	76-07-31	1450	9.5	10.5	--	--	5	0	1.3	.5	280
420849109253401	76-08-01	1800	9.5	15.0	--	--	3	0	.7	.2	380
420801109262601	76-08-23	750	9.2	14.0	--	--	4	0	.9	.4	170
420716109281601	76-07-28	1250	9.4	17.0	--	--	3	0	.9	.3	260
420710109255001	76-07-29	1250	9.5	16.0	--	--	7	0	2.0	.6	250
420645109263901	76-07-27	1800	8.2	17.0	--	--	150	0	38	13	240
420644109265101	76-07-27	1700	7.7	15.0	--	--	330	160	92	24	160
420646109264901	76-07-27	1250	9.0	21.0	--	--	4	0	1.2	.2	220
420646109264902	76-07-27	6000	10.0	20.0	--	--	9	0	1.8	1.1	980
421005109315901	76-07-31	1700	9.4	12.0	--	--	11	0	3.6	.6	360
420710109315601	76-07-28	1550	9.4	13.0	--	--	4	0	.9	.5	280
421447107375201	76-05-21	235	8.2	18.0	1	8.0	99	0	32	4.7	8.0
421042108254001	76-06-05	595	8.9	7.6	--	--	24	0	9.0	.4	130
421134109090401	76-07-25	2000	8.3	7.0	--	--	69	0	9.6	11	400
421346110152201	76-07-23	3900	8.1	9.5	--	--	470	290	110	47	680
421055109271201	76-07-29	1800	9.6	14.0	--	--	4	0	1.0	.3	390
421515109501801	76-08-21	4200	--	8.0	--	--	470	0	43	88	890
421554108122501	76-06-05	485	9.0	19.5	--	--	100	18	26	8.6	47

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STATION NUMBER	DATE OF SAMPLE	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
LINCOLN COUNTY--Continued											
420123110025201	76-08-18	1.6	1.6	170	0	139	230	3.0	.4	9.0	--
421540110114101	76-08-20	5.3	3.0	509	0	417	610	110	.8	12	--
421554110112901	76-08-20	11	2.2	543	0	445	240	98	1.6	8.7	--
421551110120701	76-08-20	4.0	4.9	371	0	304	580	270	.8	10	--
421501110115001	76-08-20	9.6	4.1	256	0	210	200	680	.5	10	--
421259110102901	76-08-20	.5	1.3	312	0	256	58	4.2	.4	9.8	--
421258110100401	76-08-20	75	1.5	569	32	520	220	420	7.0	6.8	--
421154110095801	76-08-20	.4	2.5	408	0	335	56	4.6	.6	18	--
421155110100301	76-08-20	.4	2.5	379	0	311	74	3.9	.5	18	--
SUBLETTE COUNTY--Continued											
421847109512101	76-08-21	89	.7	364	72	418	310	66	7.4	8.0	--
422034109580301	76-08-21	14	1.3	250	12	225	860	23	1.3	8.9	--
421653110060101	76-08-18	37	.6	423	75	472	71	7.4	.6	8.7	--
422215110081301	76-07-24	52	.6	352	51	374	160	6.9	.5	8.6	--
422120110075401	76-07-24	38	.6	378	59	408	130	5.3	.4	8.8	--
422133110085201	76-07-24	65	1.3	441	77	490	140	180	2.3	9.0	--
422123110081401	76-07-24	31	.9	326	21	302	240	11	.4	7.3	--
422123110081402	76-07-24	.8	1.9	477	0	391	58	4.7	.6	16	--
422206110073801	76-07-24	56	.6	344	54	372	140	7.0	.4	9.1	--
422953109352001	76-08-21	35	3.8	157	20	162	370	15	1.0	2.7	--
SWEETWATER COUNTY--Continued											
410511109024701	76-09-21	2.3	3.5	494	0	405	240	9.9	.3	16	--
411335108581501	76-03-23	.5	11	344	0	282	490	26	.4	6.3	1200
413246108425900	76-04-13	.7	10	199	--	163	670	17	.2	7.6	--
413507109132501	76-08-04	13	66	996	0	817	4600	1300	1.0	9.6	10000
	76-08-04	--	--	--	--	--	--	--	--	--	--
414416107325901	76-04-20	9.9	2.1	87	4	78	380	10	.1	9.1	--
414100107323301	76-05-06	4.7	16	608	--	499	7200	120	.4	10	--
413958107310001	76-04-14	.3	3.6	560	0	459	480	8.0	.1	11	1300
413940107365301	76-04-14	.2	3.6	446	0	366	290	2.7	.1	8.6	860
415638108125801	76-05-20	53	3.8	1100	--	902	4.6	54	5.2	11	1200
415814109290601	76-07-26	100	1.2	481	175	686	190	33	9.3	10	--
415814109340101	76-07-26	14	3.1	466	0	382	2900	67	1.8	12	--
415817109361001	76-01-29	38	1.6	590	--	484	51	53	8.4	9.8	--
420425107312301	76-05-21	1.0	2.8	353	--	290	5.7	4.3	.8	26	100
420340107542302	76-09-03	2.4	1.4	99	0	81	43	2.6	.2	12	180
420334107541901	76-08-25	1.1	2.8	131	0	107	200	5.3	.3	15	450
420228108005001	76-06-04	11	.4	112	--	92	28	3.0	.3	9.8	130
420419109235101	76-07-22	1.6	1.6	259	0	212	75	36	.3	18	--
420350109250301	76-07-29	54	.9	412	90	488	130	21	6.1	10	--
420319109250101	76-07-28	1.9	2.0	492	0	404	240	64	.6	20	--
420315109250101	76-07-28	51	.9	369	101	471	160	13	5.2	10	--
420217109245701	76-08-04	47	.7	432	47	433	28	20	12	11	--
420301109290101	76-08-04	47	.6	319	36	322	160	20	6.1	9.5	--
430116109325001	76-01-29	3.3	4.9	309	--	253	1500	24	.4	11	--
420812107363801	76-06-05	.7	3.5	172	--	141	20	4.2	.2	15	190
420655109205701	76-07-27	7.8	2.1	164	0	135	650	56	1.0	10	--
420532109232001	76-07-27	17	1.2	224	0	184	500	75	.3	10	--
421013109294702	76-07-31	.8	.6	176	0	144	53	3.7	.2	16	--
421034109254101	76-08-21	105	1.3	425	209	697	21	74	13	11	--
420947109245301	76-07-31	30	.5	219	29	228	100	25	5.8	10	--
420915109281101	76-08-23	51	.9	523	0	429	59	36	7.7	2.0	--
420951109272901	76-08-23	51	.7	268	44	293	130	25	6.3	7.8	--
420947109231301	76-07-31	53	.9	342	51	365	220	21	6.7	9.4	--
420849109253401	76-08-01	103	1.3	606	100	664	23	73	15	12	--
420801109262601	76-08-23	38	.8	240	39	262	63	29	6.6	10	--
420716109281601	76-07-28	61	.7	393	70	439	78	30	5.8	10	--
420710109255001	76-07-29	40	.7	310	63	359	150	22	7.3	9.9	--
420645109263901	76-07-27	8.6	1.1	262	0	215	350	53	.3	11	--
420644109265101	76-07-27	3.8	2.1	275	0	226	380	38	.3	12	--
420646109264901	76-07-27	49	.7	437	35	417	22	25	11	10	--
420646109264902	76-07-27	142	3.4	1100	559	1830	150	83	14	10	--
421005109315901	76-07-31	46	1.0	579	129	690	5.2	53	9.8	10	--
420710109315601	76-07-28	59	.8	423	94	503	53	43	9.1	10	--
421447107375201	76-05-21	.4	1.8	133	--	109	3.8	2.7	.3	91	170
421042108254001	76-06-05	12	1.1	163	--	134	130	6.3	.2	5.9	390
421134109090401	76-07-25	21	1.4	575	0	472	440	19	4.3	20	--
421346110152201	76-07-23	14	1.7	216	0	177	1600	40	1.2	11	--
421055109271201	76-07-29	88	1.3	525	154	687	13	80	14	10	--
421515109501801	76-08-21	18	3.4	653	0	536	1700	64	2.3	19	--
421554108122501	76-06-05	2.0	4.5	100	--	82	120	5.5	.7	3.2	250

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)
				LINCOLN COUNTY--Continued							
420123110025201	76-08-18	487	.66	--	--	--	.92	--	--	--	--
421540110114101	76-08-20	1430	1.94	--	--	--	.02	--	--	--	--
421554110112901	76-08-20	963	1.31	--	--	--	.06	--	--	--	--
421551110120701	76-08-20	1510	2.05	--	--	--	.15	--	--	--	--
421501110115001	76-08-20	1660	2.26	--	--	--	.06	--	--	--	--
421259110102901	76-08-20	343	.47	--	--	--	.27	--	--	--	--
421258110100401	76-08-20	1560	2.12	--	--	--	.01	--	--	--	--
421154110095801	76-08-20	428	.58	--	--	--	.00	--	--	--	--
421155110100301	76-08-20	419	.57	--	--	--	.01	--	--	--	--
				SUBLETTE COUNTY--Continued							
421847109512101	76-08-21	1040	1.41	--	--	--	.07	--	--	--	--
422034109580301	76-08-21	1520	2.07	--	--	--	.14	--	--	--	--
421653110060101	76-08-18	625	.85	--	--	--	.03	--	--	--	--
422215110081301	76-07-24	653	.89	--	--	--	.08	--	--	--	--
422120110075401	76-07-24	654	.89	--	--	--	.03	--	--	--	--
422133110085201	76-07-24	1020	1.39	--	--	--	.12	--	--	--	--
422123110081401	76-07-24	696	.95	--	--	--	.08	--	--	--	--
422123110081402	76-07-24	488	.66	--	--	--	1.2	--	--	--	--
422206110073801	76-07-24	622	.85	--	--	--	.04	--	--	--	--
422953109352001	76-08-21	755	1.03	--	--	--	.02	--	--	--	--
				SWEETWATER COUNTY--Continued							
410511109024701	76-09-21	762	1.04	--	--	--	.09	--	--	--	--
411335108581501	76-03-23	973	1.32	.03	87	.01	.02	.21	.18	.77	.58
413246108425900	76-04-13	1130	1.54	--	--	--	.00	--	--	--	--
413507109132501	76-08-04	9430	12.8	--	0	--	.34	--	--	--	--
	76-08-04	--	--	--	--	--	--	--	--	--	--
414416107325901	76-04-20	663	.90	--	--	--	.03	--	--	--	--
414100107323301	76-05-06	10300	14.0	--	--	--	.03	--	--	--	--
413958107310001	76-04-14	1130	1.54	--	25	.03	.02	.02	--	.19	--
413940107365301	76-04-14	783	1.06	--	39	.01	.01	.04	--	.17	--
415638108125801	76-05-20	1050	1.43	--	2	--	--	--	--	--	--
415814109290601	76-07-26	1080	1.47	--	--	--	.02	--	--	--	--
415814109340101	76-07-26	4680	6.36	--	--	--	.42	--	--	--	--
415817109361001	76-01-29	710	.97	1.92	--	--	.03	--	--	--	--
420425107312301	76-05-21	332	.45	--	12	--	--	--	--	--	--
420340107542302	76-09-03	163	.22	--	10	--	.01	--	.00	--	.00
420334107541901	76-08-25	418	.57	--	--	.04	.05	.00	.00	.03	.00
420228108005001	76-06-04	153	.21	--	<1	--	--	--	--	--	--
420419109235101	76-07-22	490	.67	--	--	--	19	--	--	--	--
420350109250301	76-07-29	764	1.04	--	--	--	.15	--	--	--	--
420319109250101	76-07-28	843	1.15	--	--	--	1.8	--	--	--	--
420315109250101	76-07-28	775	1.05	--	--	--	.03	--	--	--	--
420217109245701	76-08-04	564	--	--	--	--	.03	--	--	--	--
420301109290101	76-08-04	622	.85	--	--	--	.06	--	--	--	--
430116109325001	76-01-29	2390	3.25	6.45	--	--	2.3	--	--	--	--
420812107363801	76-06-05	188	.26	--	14	--	--	--	--	--	--
420655109205701	76-07-27	1180	1.60	--	--	--	.27	--	--	--	--
420532109232001	76-07-27	1050	1.43	--	--	--	.11	--	--	--	--
421013109294702	76-07-31	241	.33	--	--	--	.86	--	--	--	--
421034109254101	76-08-21	922	1.25	--	--	--	.02	--	--	--	--
420947109245301	76-07-31	451	.61	--	--	--	.02	--	--	--	--
420915109281101	76-08-23	606	.82	--	--	--	.00	--	--	--	--
420951109272901	76-08-23	558	.76	--	--	--	.01	--	--	--	--
420947109231301	76-07-31	760	1.03	--	--	--	.02	--	--	--	--
420849109253401	76-08-01	906	1.23	--	--	--	.01	--	--	--	--
420801109262601	76-08-23	439	.60	--	--	--	.01	--	--	--	--
420716109281601	76-07-28	654	.89	--	--	--	.10	--	--	--	--
420710109255001	76-07-29	659	.90	--	--	--	.03	--	--	--	--
420645109263901	76-07-27	839	1.14	--	--	--	.73	--	--	--	--
420644109265101	76-07-27	851	1.16	--	--	--	1.6	--	--	--	--
420646109264901	76-07-27	541	.74	--	--	--	.01	--	--	--	--
420646109264902	76-07-27	2350	3.20	--	--	--	.01	--	--	--	--
421005109315901	76-07-31	859	1.17	--	--	--	.12	--	--	--	--
420710109315601	76-07-28	702	.95	--	--	--	.39	--	--	--	--
421447107375201	76-05-21	210	.29	--	<1	--	--	--	--	--	--
421042108254001	76-06-05	364	.50	--	1	--	--	--	--	--	--
421134109090401	76-07-25	1190	1.62	--	--	--	.07	--	--	--	--
421346110152201	76-07-23	2610	3.55	--	--	--	1.9	--	--	--	--
421055109271201	76-07-29	924	1.26	--	--	--	.03	--	--	--	--
421515109501801	76-08-21	3130	4.26	--	--	--	.02	--	--	--	--
421554108122501	76-06-05	265	.36	--	4	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STATION NUMBER	DATE OF SAMPLE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL PHYTOPLANKTON (CELLS PER ML)	POTENTIAL ALGAL GROWTH BOTTLE TEST (MG/L)
LINCOLN COUNTY--Continued										
420123110025201	76-08-18	--	--	--	--	--	.02	.06	--	--
421540110114101	76-08-20	--	--	--	--	--	.01	.03	--	--
421554110112901	76-08-20	--	--	--	--	--	.04	.12	--	--
421551110120701	76-08-20	--	--	--	--	--	.01	.03	--	--
421501110115001	76-08-20	--	--	--	--	--	.00	.00	--	--
421259110102901	76-08-20	--	--	--	--	--	.00	.00	--	--
421258110100401	76-08-20	--	--	--	--	--	.03	.09	--	--
421154110095801	76-08-20	--	--	--	--	--	.01	.03	--	--
421155110100301	76-08-20	--	--	--	--	--	.01	.03	--	--
SUBLETTE COUNTY--Continued										
421847109512101	76-08-21	--	--	--	--	--	.01	.03	--	--
422034109580301	76-08-21	--	--	--	--	--	.01	.03	--	--
421653110060101	76-08-18	--	--	--	--	--	.06	.18	--	--
422215110081301	76-07-24	--	--	--	--	--	.03	.09	--	--
422120110075401	76-07-24	--	--	--	--	--	.03	.09	--	--
422133110085201	76-07-24	--	--	--	--	--	.01	.03	--	--
422123110081401	76-07-24	--	--	--	--	--	.01	.03	--	--
422123110081402	76-07-24	--	--	--	--	--	.03	.09	--	--
422206110073801	76-07-24	--	--	--	--	--	.01	.03	--	--
422953109352001	76-08-21	--	--	--	--	--	.40	1.2	--	--
SWEETWATER COUNTY--Continued										
410511109024701	76-09-21	--	--	--	--	--	.02	.06	--	--
411335108581501	76-03-23	.98	.76	.99	.06	.01	--	--	--	--
413246108425900	76-04-13	--	--	--	--	--	--	--	--	--
413507109132501	76-08-04	--	--	--	--	--	.02	.06	--	--
	76-08-04	--	--	--	--	--	--	--	--	--
414416107325901	76-04-20	--	--	--	--	--	--	--	--	--
414100107323301	76-05-06	--	--	--	--	--	--	--	--	--
413958107310001	76-04-14	.21	--	.24	.00	.01	.00	.00	--	--
413940107365301	76-04-14	.21	--	.22	.01	.00	.00	.00	--	--
415638108125801	76-05-20	--	--	--	--	--	--	--	--	--
415814109290601	76-07-26	--	--	--	--	--	.09	.28	--	--
415814109340101	76-07-26	--	--	--	--	--	.01	.03	--	--
415817109361001	76-01-29	--	--	--	--	--	--	--	--	--
420425107312301	76-05-21	--	--	--	--	--	--	--	--	--
420340107542302	76-09-03	--	.00	--	--	.01	.02	.06	--	--
420334107541901	76-08-25	.03	.00	.07	.01	.01	.01	.03	0	.3
420228108005001	76-06-04	--	--	--	--	--	--	--	--	--
420419109235101	76-07-22	--	--	--	--	--	.08	.25	--	--
420350109250301	76-07-29	--	--	--	--	--	.01	.03	--	--
420319109250101	76-07-28	--	--	--	--	--	.03	.09	--	--
420315109250101	76-07-28	--	--	--	--	--	.04	.12	--	--
420217109245701	76-08-04	--	--	--	--	--	.01	.03	--	--
420301109290101	76-08-04	--	--	--	--	--	.01	.03	--	--
430116109325001	76-01-29	--	--	--	--	--	--	--	--	--
420812107363801	76-06-05	--	--	--	--	--	--	--	--	--
420655109205701	76-07-27	--	--	--	--	--	.00	.00	--	--
420532109232001	76-07-27	--	--	--	--	--	.03	.09	--	--
421013109294702	76-07-31	--	--	--	--	--	.04	.12	--	--
421034109254101	76-08-21	--	--	--	--	--	.06	.18	--	--
420947109245301	76-07-31	--	--	--	--	--	.02	.06	--	--
420915109281101	76-08-23	--	--	--	--	--	.01	.03	--	--
420951109272901	76-08-23	--	--	--	--	--	.03	.09	--	--
420947109231301	76-07-31	--	--	--	--	--	.03	.09	--	--
420849109253401	76-08-01	--	--	--	--	--	.03	.09	--	--
420801109262601	76-08-23	--	--	--	--	--	.11	.34	--	--
420716109281601	76-07-28	--	--	--	--	--	.03	.09	--	--
420710109255001	76-07-29	--	--	--	--	--	.00	.00	--	--
420645109263901	76-07-27	--	--	--	--	--	.01	.03	--	--
420644109265101	76-07-27	--	--	--	--	--	.00	.00	--	--
420646109264901	76-07-27	--	--	--	--	--	.00	.00	--	--
420646109264902	76-07-27	--	--	--	--	--	.00	.00	--	--
421005109315901	76-07-31	--	--	--	--	--	.03	.09	--	--
420710109315601	76-07-28	--	--	--	--	--	.01	.03	--	--
421447107375201	76-05-21	--	--	--	--	--	--	--	--	--
421042108254001	76-06-05	--	--	--	--	--	--	--	--	--
421134109090401	76-07-25	--	--	--	--	--	.03	.09	--	--
421346110152201	76-07-23	--	--	--	--	--	.00	.00	--	--
421055109271201	76-07-29	--	--	--	--	--	.04	.12	--	--
421515109501801	76-08-21	--	--	--	--	--	.02	.06	--	--
421554108122501	76-06-05	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

TETON COUNTY

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	SITE	DATE OF SAMPLE	TIME	SAMP-LING DEPTH (FT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
435407110374001	WELL CB 1 GTNP	111ALVM	GW	76-09-15	1100	36	70	5.8	6.5
435403110372001	WELL CB 2 GTNP	111ALVM	GW	76-09-15	1530	36	90	6.3	9.0
435354110372401	WELL CB 4 GTNP	111ALVM	GW	76-09-16	1015	44	95	6.3	7.5
435357110374101	WELL CB 5 GTNP	111ALVM	GW	76-09-16	1500	39	320	6.1	10.5
433939110425601	WELL MV 2 GTNP	111ALVM	GW	76-06-28	1115	47	140	7.6	8.0
		--	GW	76-08-22	1330	49	150	7.6	9.0
433932110430801	WELL MV 3 GTNP	111ALVM	GW	76-06-28	1015	48	90	8.4	7.0
		--	GW	76-08-22	1200	49	110	8.2	9.0
433939110424001	WELL MV1 GTNP	111ALVM	GW	76-06-28	1215	47	220	7.7	10.0
		--	GW	76-08-22	1100	48	200	7.8	10.0
440613110402801	48N 115W 20DUA01	111ALVM	SP	76-08-04	1530	--	--	--	7.0

STATION NUMBER	DATE OF SAMPLE	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD-SORP-TION RATIO
435407110374001	76-09-15	--	--	--	--	26	0	7.3	2.0	2.4	.2
435403110372001	76-09-15	--	--	--	--	41	2	12	2.6	2.3	.2
435354110372401	76-09-16	--	--	--	--	42	0	12	2.9	2.0	.1
435357110374101	76-09-16	--	--	--	--	93	29	27	6.2	19	.9
433939110425601	76-06-28	--	--	1.7	<1	63	0	19	3.8	1.1	.1
	76-08-22	2	4.8	2.2	<1	66	5	20	3.8	1.5	.1
433932110430801	76-06-28	--	--	1.9	<1	37	0	11	2.2	1.5	.1
	76-08-22	2	1.6	1.4	<1	49	5	15	2.7	1.4	.1
433939110424001	76-06-28	--	--	3.6	<1	100	0	32	5.7	1.1	.0
	76-08-22	10	1.4	1.0	<1	96	5	30	5.0	1.4	.1
440613110402801	76-08-04	--	--	--	--	89	0	27	5.3	18	.8

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
435407110374001	76-09-15	.7	32	0	26	5.7	.8	.1	16	52	.07
435403110372001	76-09-15	.8	47	0	39	4.7	.8	.1	17	65	.09
435354110372401	76-09-16	.8	55	0	45	5.1	.5	.1	17	68	.09
435357110374101	76-09-16	2.1	78	0	64	7.7	48	.1	12	161	.22
433939110425601	76-06-28	.7	84	--	69	6.3	2.3	.1	8.0	83	.11
	76-08-22	1.1	74	--	61	4.1	.8	.1	7.2	76	.10
433932110430801	76-06-28	1.1	50	--	41	4.6	1.3	.1	2.1	49	.07
	76-08-22	.9	53	--	43	4.1	.8	.1	6.3	59	.08
433939110424001	76-06-28	1.1	130	--	107	3.9	1.2	.1	7.8	117	.16
	76-08-22	1.3	110	--	90	2.0	.6	.2	7.3	103	.14
440613110402801	76-08-04	3.4	120	--	98	21	9.3	1.4	27	172	.23

STATION NUMBER	DATE OF SAMPLE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) .MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
435407110374001	76-09-15	.17	.00	.06	--	130	1.3
435403110372001	76-09-15	.27	.00	.04	--	40	.8
435354110372401	76-09-16	.13	.00	.19	--	90	10
435357110374101	76-09-16	.01	.63	.03	--	190	3.8
433939110425601	76-06-28	--	.25	.05	--	10	.9
	76-08-22	.15	.54	.00	.00	30	1.3
433932110430801	76-06-28	--	.35	.06	--	50	1.2
	76-08-22	.29	.35	.00	.00	20	1.4
433939110424001	76-06-28	--	.05	.03	--	10	.7
	76-08-22	.16	.40	.00	.00	30	2.1
440613110402801	76-08-04	.09	.10	.02	--	20	15

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
TRACE METALS ANALYSES

STATION NUMBER	LOCAL IDENT-I-FIER	SITE	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	TOTAL ALUM-INUM (AL) (UG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
			LINCOLN COUNTY						
420123110025201	24N 111W 30DD 01	SP	76-08-18	1200	.00	--	--	--	--
421540110114101	26N 112W 06ACC01	GW	76-08-20	1430	92	--	--	--	--
421554110112901	26N 112W 06ACD01	GW	76-08-20	1500	85	--	--	--	--
421551110120701	26N 112W 06BCD01	GW	76-08-20	1800	55	--	--	--	--
421501110115001	26N 112W 07BCD01	GW	76-08-20	1700	265	--	--	--	--
421259110102901	26N 112W 20DDA01	GW	76-08-20	1045	75	--	--	--	--
421258110100401	26N 112W 21CCA01	GW	76-08-20	1045	300	--	--	--	--
421154110095801	26N 112W 33BBA01	GW	76-08-20	1300	10	--	--	--	--
421155110100301	26N 112W 33BBA02	GW	76-08-20	1300	1.0	--	--	--	--
			SUBLETTE COUNTY						
421847109512101	27N 109W 18CCB01	GW	76-08-21	1230	205	--	--	--	--
422034109580301	27N 110W 06CDD01	GW	76-08-21	1130	725	--	--	--	--
421653110060101	27N 112W 32BCA01	GW	76-08-18	1630	--	--	--	--	--
422215110081301	28N 112W 34AB 01	GW	76-07-24	1605	600	--	--	--	--
422120110075401	28N 112W 34AB 02	GW	76-07-24	1600	480	--	--	--	--
422133110085201	28N 112W 34CC 01	GW	76-07-24	1620	600	--	--	--	--
422123110081401	28N 112W 34DBA01	GW	76-07-24	1545	59	--	--	--	--
422123110081402	28N 112W 34DBA02	GW	76-07-24	1630	59	--	--	--	--
422206110073801	28N 112W 35AC 01	GW	76-07-24	1610	450	--	--	--	--
422953109352001	29N 107W 10BDD01	GW	76-08-21	1730	70	--	--	--	--
			SWEETWATER COUNTY						
410511109024701	13N 103W 19DDC01	SP	76-09-21	1600	--	--	--	--	--
411335108581501	14N 103W 02AAC01	SP	76-03-23	1145	.00	320	0	1	0
413246108425900	18N 100W 08CCA01	GW	76-04-13	1130	--	--	--	--	--
413507109132501	19N 105W 35BDA01	GW	76-08-04	1100	--	20	--	0	--
414416107325901	20N 090W 05DAB01	GW	76-04-20	1315	1740	--	--	--	--
414100107323301	20N 090W 28BCD01	GW	76-05-06	1200	22	--	--	--	--
413958107310001	20N 090W 34ACC01	SP	76-04-14	0915	--	20	0	0	0
413940107365301	20N 091W 35CAA01	GW	76-04-14	1330	--	40	0	2	0
413940107365301	20N 091W 35CAA01	GW	76-04-14	1335	--	--	90	--	--
415638108125801	23N 096W 25BBA01	GW	76-05-20	1025	2250	40	--	0	--
415814109290601	23N 107W 13ACC01	GW	76-07-26	1045	1029	--	--	--	--
415814109340101	23N 107W 17BD 01	GW	76-07-26	1430	228	--	--	--	--
415817109361001	23N 108W 13BDD01	GW	76-01-29	1130	--	--	--	--	--
420425107312301	24N 090W 11AAA01	SP	76-05-21	0845	.00	--	--	0	--
		SP	76-05-21	0850	.00	80	--	--	--
420340107542302	24N 093W 10CDA04	GW	76-09-03	1200	340	--	0	--	2
420334107541901	24N 093W 10CDB01	GW	76-08-25	1200	250	70	0	1	1
420228108005001	24N 094W 22C 01	GW	76-06-04	1700	--	--	--	0	--
		GW	76-06-04	1705	--	10	--	--	--
420419109235101	24N 106W 11CB 01	GW	76-07-22	1200	38	--	--	--	--
420350109250301	24N 106W 15BBB01	GW	76-07-29	1200	1250	--	--	--	--
420319109250101	24N 106W 15CBC01	GW	76-07-28	1100	23	--	--	--	--
420315109250101	24N 106W 15CCB01	GW	76-07-28	1100	1020	--	--	--	--
420217109245701	24N 106W 20CDA01	GW	76-08-04	1730	--	--	--	--	--
420301109290101	24N 107W 24ABA01	GW	76-08-04	1615	--	--	--	--	--
430116109325001	24N 107W 33BAB01	SP	76-01-29	1300	.00	--	--	--	--
420812107363801	25N 090W 17CAD01	SP	76-06-05	1530	.00	--	--	1	--
		SP	76-06-05	1535	.00	1200	--	--	--
420655109205701	25N 105W 28BBD01	GW	76-07-27	1230	75	--	--	--	--
420532109232001	25N 105W 31CC 01	GW	76-07-27	1030	181	--	--	--	--
421013109294702	25N 106W 02ADD02	GW	76-07-31	1640	--	--	--	--	--
421034109254101	25N 106W 02BBB01	GW	76-08-21	1100	860	--	--	--	--
420947109245301	25N 106W 02DDC01	GW	76-07-31	1500	1250	--	--	--	--
420915109281101	25N 106W 04CBB01	GW	76-08-23	1400	986	--	--	--	--
420951109272901	25N 106W 04DCA01	GW	76-08-23	1500	1063	--	--	--	--
420947109231301	25N 106W 06CDC01	GW	76-07-31	1430	900	--	--	--	--
420849109253401	25N 106W 14BAB01	GW	76-08-01	1100	--	--	--	--	--
420801109262601	25N 106W 15DCC01	GW	76-08-23	1030	--	--	--	--	--
420716109281601	25N 106W 20DDA01	GW	76-07-28	1600	1620	--	--	--	--
420710109255001	25N 106W 23CCC01	GW	76-07-29	1500	1120	--	--	--	--
420645109263901	25N 106W 27BC 01	GW	76-07-27	1515	80	--	--	--	--
420644109265101	25N 106W 27BC 02	GW	76-07-27	1515	120	--	--	--	--
420646109264901	25N 106W 27BC 03	GW	76-07-27	1500	1400	--	--	--	--
420646109264902	25N 106W 27BC 04	GW	76-07-27	1500	500	--	--	--	--
421005109315901	25N 107W 02DAB01	GW	76-07-31	1230	--	--	--	--	--
420710109315601	25N 107W 23DDC01	GW	76-07-28	1400	1365	--	--	--	--
421447107375201	26N 091W 11BBA01	SP	76-05-21	1205	.00	--	--	0	--
		SP	76-05-21	1210	.00	170	--	--	--
421042108254001	26N 097W 32DC 01	SP	76-06-05	1000	.00	--	--	11	--
		SP	76-06-05	1005	.00	30	--	--	--
421134109090401	26N 103W 30CDD01	GW	76-07-25	1400	1000	--	--	--	--
421346110152201	26N 104W 16DCC01	GW	76-07-23	1400	200	--	--	--	--
421055109271201	26N 106W 33DA 01	GW	76-07-29	1630	1100	--	--	--	--
421515109501801	26N 109W 05CBC01	GW	76-08-21	1200	349	--	--	--	--
421554108122501	27N 095W 31DCD01	GW	76-06-05	1207	.00	--	--	5	--
		GW	76-06-05	1212	.00	180	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	TOTAL BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	TOTAL BISMUTH (BI) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	TOTAL BORON (B) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)
LINCOLN COUNTY--Continued											
420123110025201	76-08-18	--	--	--	--	--	--	--	40	--	--
421540110114101	76-08-20	--	--	--	--	--	--	--	380	--	--
421554110112901	76-08-20	--	--	--	--	--	--	--	470	--	--
421551110120701	76-08-20	--	--	--	--	--	--	--	330	--	--
421501110115001	76-08-20	--	--	--	--	--	--	--	320	--	--
421259110102901	76-08-20	--	--	--	--	--	--	--	30	--	--
421258110100401	76-08-20	--	--	--	--	--	--	--	640	--	--
421154110095801	76-08-20	--	--	--	--	--	--	--	70	--	--
421155110100301	76-08-20	--	--	--	--	--	--	--	60	--	--
SUBLETTE COUNTY--Continued											
421847109512101	76-08-21	--	--	--	--	--	--	--	690	--	--
422034109580301	76-08-21	--	--	--	--	--	--	--	170	--	--
421653110060101	76-08-18	--	--	--	--	--	--	--	240	--	--
422215110081301	76-07-24	--	--	--	--	--	--	--	190	--	--
422120110075401	76-07-24	--	--	--	--	--	--	--	190	--	--
422133110085201	76-07-24	--	--	--	--	--	--	--	650	--	--
422123110081401	76-07-24	--	--	--	--	--	--	--	100	--	--
422123110081402	76-07-24	--	--	--	--	--	--	--	50	--	--
422206110073801	76-07-24	--	--	--	--	--	--	--	140	--	--
422953109352001	76-08-21	--	--	--	--	--	--	--	140	--	--
SWEETWATER COUNTY--Continued											
410511109024701	76-09-21	--	--	--	--	--	--	--	220	--	--
411335108581501	76-03-23	--	--	10	0	--	--	--	180	10	1
413246108425900	76-04-13	--	--	--	--	--	--	--	110	--	--
413507109132501	76-08-04	100	--	--	--	--	--	--	1900	20	--
414416107325901	76-04-20	--	--	--	--	--	--	--	20	--	--
414100107323301	76-05-06	--	--	--	--	--	--	--	330	--	--
413958107310001	76-04-14	--	--	0	0	--	--	--	9	<10	0
413940107365301	76-04-14	--	--	0	0	--	--	--	0	10	0
413940107365301	76-04-14	--	20	--	<3	--	<20	--	30	--	0
415638108125801	76-05-20	500	--	--	--	--	--	--	90	2	--
415814109290601	76-07-26	--	--	--	--	--	--	--	840	--	--
415814109340101	76-07-26	--	--	--	--	--	--	--	880	--	--
415817109361001	76-01-29	--	--	--	--	--	--	--	540	--	--
420425107312301	76-05-21	--	--	--	--	--	--	--	40	--	--
	76-05-21	50	--	<3	--	<8	--	30	--	0	--
420340107542302	76-09-03	--	0	--	--	--	--	--	20	--	1
420334107541901	76-08-25	0	0	--	--	--	--	--	30	<10	1
420228108005001	76-06-04	--	--	--	--	--	--	--	30	--	--
	76-06-04	8	--	<1	--	<5	--	10	--	0	--
420419109235101	76-07-22	--	--	--	--	--	--	--	110	--	--
420350109250301	76-07-29	--	--	--	--	--	--	--	680	--	--
420319109250101	76-07-28	--	--	--	--	--	--	--	300	--	--
420315109250101	76-07-28	--	--	--	--	--	--	--	670	--	--
420217109245701	76-08-04	--	--	--	--	--	--	--	500	--	--
420301109290101	76-08-04	--	--	--	--	--	--	--	430	--	--
430116109325001	76-01-29	--	--	--	--	--	--	--	190	--	--
420812107363801	76-06-05	--	--	--	--	--	--	--	40	--	--
	76-06-05	30	--	<1	--	<7	--	30	--	0	--
420655109205701	76-07-27	--	--	--	--	--	--	--	650	--	--
420532109232001	76-07-27	--	--	--	--	--	--	--	590	--	--
421013109294702	76-07-31	--	--	--	--	--	--	--	40	--	--
421034109254101	76-08-21	--	--	--	--	--	--	--	1600	--	--
420947109245301	76-07-31	--	--	--	--	--	--	--	330	--	--
420915109281101	76-08-23	--	--	--	--	--	--	--	520	--	--
420951109272901	76-08-23	--	--	--	--	--	--	--	390	--	--
420947109231301	76-07-31	--	--	--	--	--	--	--	640	--	--
420849109253401	76-08-01	--	--	--	--	--	--	--	1900	--	--
420801109262601	76-08-23	--	--	--	--	--	--	--	310	--	--
420716109281601	76-07-28	--	--	--	--	--	--	--	580	--	--
420710109255001	76-07-29	--	--	--	--	--	--	--	620	--	--
420645109263901	76-07-27	--	--	--	--	--	--	--	330	--	--
420644109265101	76-07-27	--	--	--	--	--	--	--	250	--	--
420646109264901	76-07-27	--	--	--	--	--	--	--	490	--	--
420646109264902	76-07-27	--	--	--	--	--	--	--	4800	--	--
421005109315901	76-07-31	--	--	--	--	--	--	--	960	--	--
420710109315601	76-07-28	--	--	--	--	--	--	--	670	--	--
421447107375201	76-05-21	--	--	--	--	--	--	--	70	--	--
	76-05-21	20	--	<1	--	<4	--	20	--	0	--
421042108254001	76-06-05	--	--	--	--	--	--	--	30	--	--
	76-06-05	10	--	<2	--	<10	--	20	--	0	--
421134109090401	76-07-25	--	--	--	--	--	--	--	520	--	--
421346110152201	76-07-23	--	--	--	--	--	--	--	350	--	--
421055109271201	76-07-29	--	--	--	--	--	--	--	1600	--	--
421515109501801	76-08-21	--	--	--	--	--	--	--	570	--	--
421554108122501	76-06-05	--	--	--	--	--	--	--	90	--	--
	76-06-05	20	--	<1	--	<8	--	60	--	0	--

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL GALLIUM (GA) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	TOTAL GER-MANIUM (GE) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
LINCOLN COUNTY--Continued											
420123110025201	76-08-18	--	--	--	--	--	--	--	--	--	--
421540110114101	76-08-20	--	--	--	--	--	--	--	--	--	--
421554110112901	76-08-20	--	--	--	--	--	--	--	--	--	--
421551110120701	76-08-20	--	--	--	--	--	--	--	--	--	--
421501110115001	76-08-20	--	--	--	--	--	--	--	--	--	--
421259110102901	76-08-20	--	--	--	--	--	--	--	--	--	--
421258110100401	76-08-20	--	--	--	--	--	--	--	--	--	--
421154110095801	76-08-20	--	--	--	--	--	--	--	--	--	--
421155110100301	76-08-20	--	--	--	--	--	--	--	--	--	--
SUBLETTE COUNTY--Continued											
421847109512101	76-08-21	--	--	--	--	--	--	--	--	--	--
422034109580301	76-08-21	--	--	--	--	--	--	--	--	--	--
421653110060101	76-08-18	--	--	--	--	--	--	--	--	--	--
422215110081301	76-07-24	--	--	--	--	--	--	--	--	--	--
422120110075401	76-07-24	--	--	--	--	--	--	--	--	--	--
422133110085201	76-07-24	--	--	--	--	--	--	--	--	--	--
422123110081401	76-07-24	--	--	--	--	--	--	--	--	--	--
422123110081402	76-07-24	--	--	--	--	--	--	--	--	--	--
422206110073801	76-07-24	--	--	--	--	--	--	--	--	--	--
422953109352001	76-08-21	--	--	--	--	--	--	--	--	--	--
SWEETWATER COUNTY--Continued											
410511109024701	76-09-21	--	--	--	--	--	--	--	--	--	--
411335108581501	76-03-23	20	0	--	--	10	2	--	--	--	--
413246108425900	76-04-13	--	--	--	--	--	--	--	--	--	--
413507109132501	76-08-04	20	--	--	--	40	--	--	--	--	--
414416107325901	76-04-20	--	--	--	--	--	--	--	--	--	--
414100107323301	76-05-06	--	--	--	--	--	--	--	--	--	--
413958107310001	76-04-14	10	10	--	--	10	0	--	--	--	--
413940107365301	76-04-14	20	10	--	--	60	0	--	--	--	--
413940107365301	76-04-14	--	<15	--	<15	--	7	--	<6	--	<20
415638108125801	76-05-20	<10	--	--	--	0	--	--	--	--	--
415814109290601	76-07-26	--	--	--	--	--	--	--	--	--	--
415814109340101	76-07-26	--	--	--	--	--	--	--	--	--	--
415817109361001	76-01-29	--	--	--	--	--	--	--	--	--	--
420425107312301	76-05-21	--	--	--	--	--	--	--	--	--	--
	76-05-21	<8	--	<8	--	<2	--	<4	--	<10	--
420340107542302	76-09-03	--	0	--	--	--	0	--	--	--	--
420334107541901	76-08-25	0	0	--	--	10	0	--	--	--	--
420228108005001	76-06-04	--	--	--	--	--	--	--	--	--	--
	76-06-04	<3	--	<3	--	<1	--	<1	--	<5	--
420419109235101	76-07-22	--	--	--	--	--	--	--	--	--	--
420350109250301	76-07-29	--	--	--	--	--	--	--	--	--	--
420319109250101	76-07-28	--	--	--	--	--	--	--	--	--	--
420315109250101	76-07-28	--	--	--	--	--	--	--	--	--	--
420217109245701	76-08-04	--	--	--	--	--	--	--	--	--	--
420301109290101	76-08-04	--	--	--	--	--	--	--	--	--	--
430116109325001	76-01-29	--	--	--	--	--	--	--	--	--	--
420812107363801	76-06-05	--	--	--	--	--	--	--	--	--	--
	76-06-05	<5	--	<5	--	2	--	<2	--	<7	--
420655109205701	76-07-27	--	--	--	--	--	--	--	--	--	--
420532109232001	76-07-27	--	--	--	--	--	--	--	--	--	--
421013109294702	76-07-31	--	--	--	--	--	--	--	--	--	--
421034109254101	76-08-21	--	--	--	--	--	--	--	--	--	--
420947109245301	76-07-31	--	--	--	--	--	--	--	--	--	--
420915109281101	76-08-23	--	--	--	--	--	--	--	--	--	--
420951109272901	76-08-23	--	--	--	--	--	--	--	--	--	--
420947109231301	76-07-31	--	--	--	--	--	--	--	--	--	--
420849109253401	76-08-01	--	--	--	--	--	--	--	--	--	--
420801109262601	76-08-23	--	--	--	--	--	--	--	--	--	--
420716109281601	76-07-28	--	--	--	--	--	--	--	--	--	--
420710109255001	76-07-29	--	--	--	--	--	--	--	--	--	--
420645109263901	76-07-27	--	--	--	--	--	--	--	--	--	--
420644109265101	76-07-27	--	--	--	--	--	--	--	--	--	--
420646109264901	76-07-27	--	--	--	--	--	--	--	--	--	--
420646109264902	76-07-27	--	--	--	--	--	--	--	--	--	--
421005109315901	76-07-31	--	--	--	--	--	--	--	--	--	--
420710109315601	76-07-28	--	--	--	--	--	--	--	--	--	--
421447107375201	76-05-21	--	--	--	--	--	--	--	--	--	--
	76-05-21	<4	--	<4	--	2	--	<2	--	<4	--
421042108254001	76-06-05	--	--	--	--	--	--	--	--	--	--
	76-06-05	<7	--	<7	--	<2	--	<2	--	<10	--
421134109090401	76-07-25	--	--	--	--	--	--	--	--	--	--
421346110152201	76-07-23	--	--	--	--	--	--	--	--	--	--
421055109271201	76-07-29	--	--	--	--	--	--	--	--	--	--
421515109501801	76-08-21	--	--	--	--	--	--	--	--	--	--
421554108122501	76-06-05	--	--	--	--	--	--	--	--	--	--
	76-06-05	<5	--	<5	--	<1	--	<2	--	<7	--

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
LINCOLN COUNTY--Continued											
420123110025201	76-08-18	--	20	--	--	--	--	--	0	--	--
421540110114101	76-08-20	--	20	--	--	--	--	--	30	--	--
421554110112901	76-08-20	--	70	--	--	--	--	--	0	--	--
421551110120701	76-08-20	--	10	--	--	--	--	--	10	--	--
421501110115001	76-08-20	--	20	--	--	--	--	--	0	--	--
421259110102901	76-08-20	--	70	--	--	--	--	--	0	--	--
421258110100401	76-08-20	--	80	--	--	--	--	--	0	--	--
421154110095801	76-08-20	--	60	--	--	--	--	--	0	--	--
421155110100301	76-08-20	--	80	--	--	--	--	--	0	--	--
SUBLETTE COUNTY--Continued											
421847109512101	76-08-21	--	30	--	--	--	--	--	0	--	--
422034109580301	76-08-21	--	30	--	--	--	--	--	50	--	--
421653110060101	76-08-18	--	0	--	--	--	--	--	0	--	--
422215110081301	76-07-24	--	40	--	--	--	--	--	0	--	--
422120110075401	76-07-24	--	40	--	--	--	--	--	0	--	--
422133110085201	76-07-24	--	60	--	--	--	--	--	0	--	--
422123110081401	76-07-24	--	30	--	--	--	--	--	0	--	--
422123110081402	76-07-24	--	20	--	--	--	--	--	10	--	--
422206110073801	76-07-24	--	20	--	--	--	--	--	0	--	--
422953109352001	76-08-21	--	80	--	--	--	--	--	0	--	--
SWEETWATER COUNTY--Continued											
410511109024701	76-09-21	--	10	--	--	--	--	--	30	--	--
411335108581501	76-03-23	1300	70	<100	1	50	60	170	160	.0	.0
413246108425900	76-04-13	--	2200	--	--	--	--	--	--	--	--
413507109132501	76-08-04	630	80	150	--	--	--	2000	2200	.0	--
414416107325901	76-04-20	--	80	--	--	--	--	--	--	--	--
414100107323301	76-05-06	--	2300	--	--	--	--	--	--	--	--
413958107310001	76-04-14	11000	10000	<100	0	10	10	510	490	.0	.0
413940107365301	76-04-14	28000	34000	100	0	10	20	380	340	.0	.0
413940107365301	76-04-14	--	2400	--	<15	--	10	--	510	--	--
415638108125801	76-05-20	80	70	11	--	50	--	0	--	<.5	--
415814109290601	76-07-26	--	30	--	--	--	--	--	0	--	--
415814109340101	76-07-26	--	30	--	--	--	--	--	450	--	--
415817109361001	76-01-29	--	920	--	--	--	--	--	--	--	--
420425107312301	76-05-21	--	20	--	--	--	--	--	--	<.5	--
	76-05-21	6500	--	<8	--	20	--	900	--	--	--
420340107542302	76-09-03	--	30	--	3	--	--	--	10	--	.0
420334107541901	76-08-25	290	210	<100	2	--	--	70	60	.0	.0
420228108005001	76-06-04	--	0	--	--	--	--	--	--	<.5	--
	76-06-04	10	--	<3	--	0	--	<2	--	--	--
420419109235101	76-07-22	--	40	--	--	--	--	--	0	--	--
420350109250301	76-07-29	--	20	--	--	--	--	--	0	--	--
420319109250101	76-07-28	--	60	--	--	--	--	--	250	--	--
420315109250101	76-07-28	--	40	--	--	--	--	--	0	--	--
420217109245701	76-08-04	--	30	--	--	--	--	--	0	--	--
420301109290101	76-08-04	--	80	--	--	--	--	--	0	--	--
430116109325001	76-01-29	--	150	--	--	--	--	--	--	--	--
420812107363801	76-06-05	--	540	--	--	--	--	--	--	<.5	--
	76-06-05	1300	--	7	--	10	--	60	--	--	--
420655109205701	76-07-27	--	90	--	--	--	--	--	40	--	--
420532109232001	76-07-27	--	60	--	--	--	--	--	30	--	--
421013109294702	76-07-31	--	40	--	--	--	--	--	10	--	--
421034109254101	76-08-21	--	20	--	--	--	--	--	0	--	--
420947109245301	76-07-31	--	70	--	--	--	--	--	10	--	--
420915109281101	76-08-23	--	190	--	--	--	--	--	20	--	--
420951109272901	76-08-23	--	40	--	--	--	--	--	0	--	--
420947109231301	76-07-31	--	100	--	--	--	--	--	10	--	--
420849109253401	76-08-01	--	20	--	--	--	--	--	0	--	--
420801109262601	76-08-23	--	40	--	--	--	--	--	0	--	--
420716109281601	76-07-28	--	100	--	--	--	--	--	0	--	--
420710109255001	76-07-29	--	70	--	--	--	--	--	0	--	--
420645109263901	76-07-27	--	70	--	--	--	--	--	20	--	--
420644109265101	76-07-27	--	90	--	--	--	--	--	10	--	--
420646109264901	76-07-27	--	30	--	--	--	--	--	0	--	--
420646109264902	76-07-27	--	80	--	--	--	--	--	10	--	--
421005109315901	76-07-31	--	60	--	--	--	--	--	10	--	--
420710109315601	76-07-28	--	30	--	--	--	--	--	10	--	--
421447107375201	76-05-21	--	90	--	--	--	--	--	--	<.5	--
	76-05-21	250	--	<4	--	0	--	20	--	--	--
421042108254001	76-06-05	--	280	--	--	--	--	--	--	<.5	--
	76-06-05	90	--	<7	--	40	--	<5	--	--	--
421134109090401	76-07-25	--	30	--	--	--	--	--	0	--	--
421346110152201	76-07-23	--	60	--	--	--	--	--	30	--	--
421055109271201	76-07-29	--	30	--	--	--	--	--	0	--	--
421515109501801	76-08-21	--	140	--	--	--	--	--	10	--	--
421554108122501	76-06-05	--	60	--	--	--	--	--	--	<.5	--
	76-06-05	150	--	<5	--	30	--	20	--	--	--

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	TOTAL MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	TOTAL STRON-TIUM (SR) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
LINCOLN COUNTY--Continued											
420123110025201	76-08-18	--	--	--	--	--	--	--	--	--	--
421540110114101	76-08-20	--	--	--	--	--	--	--	--	--	--
421554110112901	76-08-20	--	--	--	--	--	--	--	--	--	--
421551110120701	76-08-20	--	--	--	--	--	--	--	--	--	--
421501110115001	76-08-20	--	--	--	--	--	--	--	--	--	--
421259110102901	76-08-20	--	--	--	--	--	--	--	--	--	--
421258110100401	76-08-20	--	--	--	--	--	--	--	--	--	--
421154110095801	76-08-20	--	--	--	--	--	--	--	--	--	--
421155110100301	76-08-20	--	--	--	--	--	--	--	--	--	--
SUBLETTE COUNTY--Continued											
421847109512101	76-08-21	--	--	--	--	--	--	--	--	--	--
422034109580301	76-08-21	--	--	--	--	--	--	--	--	--	--
421653110060101	76-08-18	--	--	--	--	--	--	--	--	--	--
422215110081301	76-07-24	--	--	--	--	--	--	--	--	--	--
422120110075401	76-07-24	--	--	--	--	--	--	--	--	--	--
422133110085201	76-07-24	--	--	--	--	--	--	--	--	--	--
422123110081401	76-07-24	--	--	--	--	--	--	--	--	--	--
422123110081402	76-07-24	--	--	--	--	--	--	--	--	--	--
422206110073801	76-07-24	--	--	--	--	--	--	--	--	--	--
422953109352001	76-08-21	--	--	--	--	--	--	--	--	--	--
SWEETWATER COUNTY--Continued											
410511109024701	76-09-21	--	--	--	--	--	--	--	--	--	--
411335108581501	76-03-23	2	2	<50	4	0	0	--	--	--	--
413246108425900	76-04-13	--	--	--	--	--	--	--	--	--	--
413507109132501	76-08-04	0	--	--	--	1	--	40	--	--	--
414416107325901	76-04-20	--	--	--	--	--	--	--	--	--	--
414100107323301	76-05-06	--	--	--	--	--	--	--	--	--	--
413958107310001	76-04-14	1	0	50	1	0	0	--	--	--	--
413940107365301	76-04-14	1	0	<50	0	0	0	--	--	--	--
413940107365301	76-04-14	--	10	--	<15	--	--	--	<2	--	150
415638108125801	76-05-20	1	--	3	--	0	--	--	--	390	--
415814109290601	76-07-26	--	--	--	--	--	--	--	--	--	--
415814109340101	76-07-26	--	--	--	--	--	--	--	--	--	--
415817109361001	76-01-29	--	--	--	--	--	--	--	--	--	--
420425107312301	76-05-21	--	--	--	--	0	--	--	--	--	--
	76-05-21	<2	--	<8	--	--	--	<1	--	900	--
420340107542302	76-09-03	--	1	--	--	--	2	--	0	--	--
420334107541901	76-08-25	2	0	--	--	0	0	<10	0	--	--
420228108005001	76-06-04	--	--	--	--	0	--	--	--	--	--
	76-06-04	3	--	<3	--	--	--	0	--	20	--
420419109235101	76-07-22	--	--	--	--	--	--	--	--	--	--
420350109250301	76-07-29	--	--	--	--	--	--	--	--	--	--
420319109250101	76-07-28	--	--	--	--	--	--	--	--	--	--
420315109250101	76-07-28	--	--	--	--	--	--	--	--	--	--
420217109245701	76-08-04	--	--	--	--	--	--	--	--	--	--
420301109290101	76-08-04	--	--	--	--	--	--	--	--	--	--
430116109325001	76-01-29	--	--	--	--	--	--	--	--	--	--
420812107363801	76-06-05	--	--	--	--	0	--	--	--	--	--
	76-06-05	<2	--	<5	--	--	--	<1	--	420	--
420655109205701	76-07-27	--	--	--	--	--	--	--	--	--	--
420532109232001	76-07-27	--	--	--	--	--	--	--	--	--	--
421013109294702	76-07-31	--	--	--	--	--	--	--	--	--	--
421034109254101	76-08-21	--	--	--	--	--	--	--	--	--	--
420947109245301	76-07-31	--	--	--	--	--	--	--	--	--	--
420915109281101	76-08-23	--	--	--	--	--	--	--	--	--	--
420951109272901	76-08-23	--	--	--	--	--	--	--	--	--	--
420947109231301	76-07-31	--	--	--	--	--	--	--	--	--	--
420849109253401	76-08-01	--	--	--	--	--	--	--	--	--	--
420801109262601	76-08-23	--	--	--	--	--	--	--	--	--	--
420716109281601	76-07-28	--	--	--	--	--	--	--	--	--	--
420710109255001	76-07-29	--	--	--	--	--	--	--	--	--	--
420645109263901	76-07-27	--	--	--	--	--	--	--	--	--	--
420644109265101	76-07-27	--	--	--	--	--	--	--	--	--	--
420646109264901	76-07-27	--	--	--	--	--	--	--	--	--	--
420646109264902	76-07-27	--	--	--	--	--	--	--	--	--	--
421005109315901	76-07-31	--	--	--	--	--	--	--	--	--	--
420710109315601	76-07-28	--	--	--	--	--	--	--	--	--	--
421447107375201	76-05-21	--	--	--	--	0	--	--	--	--	--
	76-05-21	<1	--	<4	--	--	--	0	--	160	--
421042108254001	76-06-05	--	--	--	--	0	--	--	--	--	--
	76-06-05	<3	--	<7	--	--	--	<1	--	30	--
421134109090401	76-07-25	--	--	--	--	--	--	--	--	--	--
421346110152201	76-07-23	--	--	--	--	--	--	--	--	--	--
421055109271201	76-07-29	--	--	--	--	--	--	--	--	--	--
421515109501801	76-08-21	--	--	--	--	--	--	--	--	--	--
421554108122501	76-06-05	--	--	--	--	0	--	--	--	--	--
	76-06-05	<2	--	<5	--	--	--	<1	--	450	--

QUALITY OF GROUND WATER
WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
TRACE METALS ANALYSES

STATION NUMBER	DATE OF SAMPLE	TOTAL TIN (SN) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	TOTAL TI-TANIUM (TI) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	TOTAL VANA-DIUM (V) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZIR-CONIUM (ZR) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
					LINCOLN COUNTY--Continued						
420123110025201	76-08-18	--	--	--	--	--	--	--	--	--	--
421540110114101	76-08-20	--	--	--	--	--	--	--	--	--	--
421554110112901	76-08-20	--	--	--	--	--	--	--	--	--	--
421551110120701	76-08-20	--	--	--	--	--	--	--	--	--	--
421501110115001	76-08-20	--	--	--	--	--	--	--	--	--	--
421259110102901	76-08-20	--	--	--	--	--	--	--	--	--	--
421258110100401	76-08-20	--	--	--	--	--	--	--	--	--	--
421154110095001	76-08-20	--	--	--	--	--	--	--	--	--	--
421155110100301	76-08-20	--	--	--	--	--	--	--	--	--	--
					SUBLETTE COUNTY--Continued						
421847109512101	76-08-21	--	--	--	--	--	--	--	--	--	--
422034109580301	76-08-21	--	--	--	--	--	--	--	--	--	--
421653110060101	76-08-18	--	--	--	--	--	--	--	--	--	--
422215110081301	76-07-24	--	--	--	--	--	--	--	--	--	--
422120110075401	76-07-24	--	--	--	--	--	--	--	--	--	--
422133110085201	76-07-24	--	--	--	--	--	--	--	--	--	--
422123110081401	76-07-24	--	--	--	--	--	--	--	--	--	--
422123110081402	76-07-24	--	--	--	--	--	--	--	--	--	--
422206110073801	76-07-24	--	--	--	--	--	--	--	--	--	--
422953109352001	76-08-21	--	--	--	--	--	--	--	--	--	--
					SWEETWATER COUNTY--Continued						
410511109024701	76-09-21	--	--	--	--	--	--	--	--	--	--
411335108581501	76-03-23	--	--	--	--	--	.3	20	0	--	--
413246108425900	76-04-13	--	--	--	--	--	--	--	--	--	--
413507109132501	76-08-04	--	--	--	--	--	--	50	--	--	--
414416107325901	76-04-28	--	--	--	--	--	--	--	--	--	--
414100107323301	76-05-06	--	--	--	--	--	--	--	--	--	--
413958107310001	76-04-14	--	--	--	--	--	4.5	620	640	--	--
413940107365301	76-04-14	--	--	--	--	--	1.0	1400	1500	--	--
413940107365301	76-04-14	--	<15	--	7	--	<12	--	450	--	<30
415630108125801	76-05-20	--	--	--	--	--	--	0	--	--	--
415814109290601	76-07-26	--	--	--	--	--	--	--	--	--	--
415814109340101	76-07-26	--	--	--	--	--	--	--	--	--	--
415817109361001	76-01-29	--	--	--	--	--	--	--	--	--	--
420425107312301	76-05-21	--	--	--	--	--	--	--	--	--	--
	76-05-21	<8	--	<5	--	<8.0	--	0	--	<10	--
420340107542302	76-09-03	--	--	--	--	--	--	--	8	--	--
420334107541901	76-08-25	--	--	--	--	--	--	0	0	--	--
420228108005001	76-06-04	--	--	--	--	--	--	--	--	--	--
	76-06-04	<3	--	<2	--	<2.0	--	10	--	<5	--
420419109235101	76-07-22	--	--	--	--	--	--	--	--	--	--
420350109250301	76-07-29	--	--	--	--	--	--	--	--	--	--
420319109250101	76-07-28	--	--	--	--	--	--	--	--	--	--
420315109250101	76-07-28	--	--	--	--	--	--	--	--	--	--
420217109245701	76-08-04	--	--	--	--	--	--	--	--	--	--
420301109290101	76-08-04	--	--	--	--	--	--	--	--	--	--
430116109325001	76-01-29	--	--	--	--	--	--	--	--	--	--
420812107363801	76-06-05	--	--	--	--	--	--	--	--	--	--
	76-06-05	<5	--	60	--	<3.0	--	0	--	<7	--
420055109205701	76-07-27	--	--	--	--	--	--	--	--	--	--
420532109232001	76-07-27	--	--	--	--	--	--	--	--	--	--
421013109294702	76-07-31	--	--	--	--	--	--	--	--	--	--
421034109254101	76-08-21	--	--	--	--	--	--	--	--	--	--
420947109245301	76-07-31	--	--	--	--	--	--	--	--	--	--
420915109281101	76-08-23	--	--	--	--	--	--	--	--	--	--
420951109272901	76-08-23	--	--	--	--	--	--	--	--	--	--
420947109231301	76-07-31	--	--	--	--	--	--	--	--	--	--
420849109253401	76-08-01	--	--	--	--	--	--	--	--	--	--
420801109262601	76-08-23	--	--	--	--	--	--	--	--	--	--
420716109281601	76-07-28	--	--	--	--	--	--	--	--	--	--
420710109255001	76-07-29	--	--	--	--	--	--	--	--	--	--
420645109263901	76-07-27	--	--	--	--	--	--	--	--	--	--
420644109265101	76-07-27	--	--	--	--	--	--	--	--	--	--
420646109264901	76-07-27	--	--	--	--	--	--	--	--	--	--
420646109264902	76-07-27	--	--	--	--	--	--	--	--	--	--
421005109315901	76-07-31	--	--	--	--	--	--	--	--	--	--
420710109315601	76-07-28	--	--	--	--	--	--	--	--	--	--
421447107375201	76-05-21	--	--	--	--	--	--	--	--	--	--
	76-05-21	<4	--	10	--	<4.0	--	0	--	<5	--
421042108254001	76-06-05	--	--	--	--	--	--	--	--	--	--
	76-06-05	<7	--	<5	--	<5.0	--	0	--	<10	--
421134109090401	76-07-25	--	--	--	--	--	--	--	--	--	--
421346110152201	76-07-23	--	--	--	--	--	--	--	--	--	--
421055109271201	76-07-29	--	--	--	--	--	--	--	--	--	--
421515109501801	76-08-21	--	--	--	--	--	--	--	--	--	--
421554108122501	76-06-05	--	--	--	--	--	--	--	--	--	--
	76-06-05	<5	--	10	--	<4.0	--	0	--	<7	--

QUALITY OF GROUND WATER

WATER-QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

RADIOCHEMICAL ANALYSES

SWEETWATER COUNTY

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	SITE	DATE OF SAMPLE	TIME	TOTAL DEPTH OF WELL (FT)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)
411335108581501	14N 103W 02AAC01	211ALMD	SP	76-03-23	1145	.00	<17	4.2	26
413507109132501	19N 105W 35BDA01	211RKSP	GW	76-08-04	1100	--	<96	<.4	62
413958107310001	20N 090W 34ACC01	--	SP	76-04-14	0915	--	<16	.8	67
413940107365301	20N 091W 35CAA01	--	GW	76-04-14	1330	--	<8.7	2.1	6.3
415638108125801	23N 096W 25BBA01	124WSTC	GW	76-05-20	1025	2250	<18	<.4	7.5
420425107312301	24N 090W 11AAA01	124BSPG	SP	76-05-21	0845	.00	<2.0	2.1	8.1
420340107542302	24N 093W 10CDA04	124BSPG	GW	76-09-03	1200	340	8.7	.4	6.0
420334107541901	24N 093W 10CDB01	124BSPG	GW	76-08-25	1200	250	26	.8	11
420228108005001	24N 094W 22C 01	124BSPG	GW	76-06-04	1700	--	<2.1	<.4	1.0
420812107363801	25N 098W 17CAD01	124BSPG	SP	76-06-05	1530	.00	3.4	1.3	6.4
421447107375201	26N 091W 11BBA01	124BSPG	SP	76-05-21	1205	.00	<3.0	<.4	6.2
421042108254001	26N 097W 32DC 01	124CDBF	SP	76-06-05	1000	.00	<6.5	<.4	2.1
421554108122501	27N 095W 31DCD01	124EOCN	GW	76-06-05	1207	.00	<2.8	<.4	4.8

STATION NUMBER	DATE OF SAMPLE	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)	DIS-SOLVED URANIUM (DIRECT FLUORO-METRIC) (PC/L)
411335108581501	76-03-23	5.5	21	4.4	.09	--	7.0
413507109132501	76-08-04	1.2	56	1.1	.64	17	--
413958107310001	76-04-14	1.8	54	1.6	.27	--	4.0
413940107365301	76-04-14	2.0	5.2	1.7	.06	--	.7
415638108125801	76-05-20	<.4	6.0	<.4	.74	.04	--
420425107312301	76-05-21	6.5	6.9	5.7	.22	--	36
420340107542302	76-09-03	.6	5.2	.5	1.5	--	1.8
420334107541901	76-08-25	1.4	8.8	1.3	1.1	--	3.9
420228108005001	76-06-04	<.4	.8	<.4	.10	.50	--
420812107363801	76-06-05	.8	5.1	.7	.06	--	1.2
421447107375201	76-05-21	<.4	5.3	<.4	.04	--	.4
421042108254001	76-06-05	<.4	1.8	<.4	.07	--	1.8
421554108122501	76-06-05	.8	3.9	.7	.06	--	2.8

1/ GEOLOGIC UNIT

111ALVM	alluvium
124BSPG	Battle Spring Formation
124CDBF	Cathedral Bluffs Tongue of Wasatch Formation
124EOCN	Eocene Series
124LNEY	Laney Shale Member of Green River Formation
124TPTN	Tipton Shale Member of Green River Formation
124WSTC	Wasatch Formation
125FRUN	Fort Union Formation
211ALMD	Almond Formation
211ERCS	Ericson Formation
211RKSP	Rock Springs Formation

INDEX

Page
Accuracy of field data and computed results.. 11
Acknowledgment.... 2
Acre-foot, definition of.... 2
Adenosine triphosphate, definition of.... 2
Afton, Swift Creek near.... 312
Algae, blue-green, definition of.... 5
Algae, definition of.... 2
Algae, green, definition of.... 5
Algal growth potential, definition of.... 2
Alpine, Greys River above Reservoir, near.... 310-311
  Snake River above Reservoir, near.... 301-309
Aquifer, definition of.... 2
Artificial substrate, definition of.... 7
Artisian, definition of.... 2
Ash mass, definition of.... 3

Bacteria, definition of.... 2
Baggs, Dry Cow Creek near.... 261,319
  Little Snake River near.... 262-263
Beans Spring Creek at mouth, near South Baxter.... 132-136
  near South Baxter.... 130-131
Bear Creek, above North Fork Bear Creek, near Brannen Reservoir.... 333
  near Honeycomb Butte.... 333
  North Fork, at mouth, near Brannen Reservoir.... 332
Bear River, above reservoir, near Woodruff, UT.... 273-274
  at Border.... 285-289
  below Pixley Dam, near Cokeville.... 282
  below reservoir, near Woodruff, UT.... 276
  below Smiths Fork, near Cokeville.... 284
  East Fork, near Evanston.... 264
  near Randolph, UT.... 277
  near Utah-Wyoming State line.... 268
  West Fork, at Whitney Dam, near Oakley, UT. 266
    below Deer Creek, near Evanston.... 267
Bear River basin, crest-stage partial-record station in.... 319
  gaging-station records in.... 264-289
Bed material, definition of.... 3
Big Flat Draw near Rock Springs.... 151,317
Big Piney, Dry Basin Creek near.... 41,317
  Green River near.... 27
  New Fork River near.... 37-40
Big Sandy, Big Sandy River at Leckie Ranch, near.... 67-68
  East Fork River near.... 33-36
Big Sandy River, above Little Sandy Creek, near Farson.... 323-324
  at Gasson Bridge, near Eden.... 82-87
  at Leckie Ranch, near Big Sandy.... 67-68
  below Eden.... 77-81
  below spillway at Big Sandy Reservoir.... 322
  near Farson.... 69-71
  spillway at Big Sandy Reservoir.... 322
Biochemical oxygen demand, definition of.... 3
Biomass, definition of.... 3
Bitter Creek, above Salt Wells Creek, near Salt Wells.... 116-120
  below Little Bitter Creek, near Kanda.... 161-163
  near Bitter Creek.... 107-113
  near Point of Rocks.... 115
  tributary near Green River.... 318
Blacks Fork, above Meeks Cabin Dam, near Robertson.... 403-405
  near Little America.... 218-227
  near Lyman.... 188-194
  near Millburne.... 178-181
  near Robertson.... 177
  tributary near Granger.... 318
  tributary No. 2 near Green River.... 318
  tributary No. 3 near Green River.... 318
  tributary No. 4 near Green River.... 318
Blue-green algae, definition of.... 5
Border, Bear River at.... 285-288
  Smiths Fork near.... 283
Buckhorn Creek at lower Farson cutoff, near Farson.... 322
Buffalo Fork above Lava Creek, near Moran.... 293-294
Buffalo Fork basin, gaging-station record in.... 293-294

Page
Burnt Fork near Burntfork.... 229-230
Burntfork, Burnt Fork near.... 229-230
  Green River tributary No. 2 near.... 228,318
Bush Creek at mouth, near Bush Lake.... 334

Cache Creek near Jackson.... 295-298
Carbon County, ground-water records in.... 418
Cells per volume, definition of.... 3
Cfs-day, definition of.... 3
Chapman Canal at State line, near Evanston... 272
Chemical oxygen demand, definition of.... 3
Chlorophyll, definition of.... 3
Circle Creek near Salt Wells.... 401-402
Cokeville, Bear River below Pixley Dam, near. 282
  Bear River below Smiths Fork, near.... 284
Coliform bacteria, fecal, definition of.... 3
  fecal streptococcal, definition of.... 3
  total, definition of.... 2
Collection and computation of surface-water data.... 9
Collection and examination of water-quality data.... 12
Collection of ground-water level data.... 13
Colorado River basin, analyses of samples collected at miscellaneous sites in.... 322-413
  crest-stage partial-record stations in.... 317-319
  discharge measurements at miscellaneous sites in.... 320-321
  gaging-station records in.... 21-263
Color unit, definition of.... 3
Computations, accuracy of results of.... 11
Concentration, mean, definition of.... 6
  suspended, definition of.... 6
Contents, definition of.... 3
Control, definition of.... 3
Control structure, definition of.... 3
Cooperation.... 1
Crest-stage partial-record stations, discharge of.... 317-319
Crystal Creek at mouth, near Kelly.... 321
Cubic feet per second per square mile, definition of.... 3
Cubic foot per second, definition of.... 3
Cutthroat Draw near Rock Springs.... 317

Daniel, Green River at Warren Bridge, near... 21-26
Dans Creek near South Baxter.... 392
Deadman Wash near Point of Rocks.... 114,317
Definition of terms.... 2
Delaney Draw near Red Desert.... 106,317
Diamondville, Hams Fork near.... 211-213
Diatoms, definition of.... 5
Discharge, at crest-stage partial-record stations.... 317-319
  at miscellaneous sites.... 320-321
  definition of.... 4
  instantaneous, definition of.... 4
  mean, definition of.... 4
Dissolved, definition of.... 4
Diversity index, definition of.... 4
Dixon, Little Snake River near.... 254-259
  Willow Creek near.... 260
Downstream order and station number.... 8
Drainage area, definition of.... 4
Drainage basin, definition of.... 4
Dry Basin Creek near Big Piney.... 41,317
Dry Canyon Creek, above Pio Reservoir, near South Baxter.... 395
  at mouth, near South Baxter.... 397-398
Dry Cow Creek near Baggs.... 261,319
Dry mass, definition of.... 3
Dune Pond near Superior.... 402

East Fork River near Big Sandy.... 33-36
East Otterson Wash near Green River.... 87,317
East Salt Wells Creek, at Highway 436 bridge, near South Baxter.... 400
  at mouth, near South Baxter.... 400
Eden, Big Sandy River at Gasson Bridge, near.... 82-87
  Big Sandy River below.... 77-81
  Little Sandy Creek above.... 72-74
Etna, Salt River above Reservoir, near.... 313-315

Page

- Evanston, Chapman Canal at State line, near.. 272
  - East Fork Bear River near 264
  - Hilliard-East Fork Canal near State line, near 265
  - Sulphur Creek, above Reservoir, near 269
    - below Reservoir, near 270
  - West Fork Bear River below Deer Creek, near 267
  - Yellow Creek near 271
- Explanation of, ground-water level records... 13
  - stage and water-discharge records 9
  - water-quality records 12

- Farson, Big Sandy River near 69-71
  - Pacific Creek near 75-76
- Fecal coliform bacteria, definition of 3
- Fecal streptococcal bacteria, definition of.. 3
- Flaming Gorge Reservoir at Flaming Gorge Dam, UT 239
- Flat Creek basin, gaging-station record in... 295-298
- Fontenelle Creek near Herschler Ranch, near Fontenelle 55-57
- Fontenelle Reservoir, Green River below 59-66
  - near Fontenelle 58
- Fourmile Gulch tributary near Fontenelle 317
- Fremont Lake, Pine Creek above 28-32
- Frontier, Hams Fork below Pole Creek, near... 208-210

- Gage height, definition of 4
- Gaging station, definition of 4
- Gap Creek, above Beans Spring Creek, near South Baxter 128-129
  - at mouth, near South Baxter 392-394
  - below Beans Spring Creek, near South Baxter 137-150
  - near Red Springs Ranch 382
- Gap Spring Creek, near mouth, near South Baxter 384-385
- Glencoe, Little Muddy Creek near 195-198
- Granger, Hams Fork near 214-217
- Grassy Lake near Moran 316
- Green algae, definition of 5
- Green River, East Otterson Wash near 87,317
  - Green River, at Big Island 88-91
    - below 174-176
    - near 164-173
  - Summers Dry Creek near 228,318
- Green River, at Big Island, near Green River. 88-91
  - at Warren Bridge, near Daniel 21-26
  - below Fontenelle Reservoir 59-66
  - below Green River 174-176
  - near Big Piney 27
  - near Green River 164-173
  - near Greendale, UT 240-245
  - near La Barge 46-54
  - tributary No. 2 near Burntfork 228,318
- Green River basin, analyses of samples collected at miscellaneous sites in.... 322-413
  - crest-stage partial-record stations in 317-319
  - discharge measurements at miscellaneous sites in 320
  - gaging-station records in 21-263
- Greendale, UT, Green River near 240-245
- Greys River above Reservoir, near Alpine 310-311
- Greys River basin, gaging-station record in.. 310-311
- Gros Ventre River basin, discharge measurements at miscellaneous sites in. 320-321
- Gros Ventre River, at U.S. Highways 26, 89, and 187, near Jackson 321
  - below Coal Mine Draw, near Kelly 320
- Ground water, chemical analyses of, by county:
  - Lincoln County 420-424,426-431
  - Sublette County 420-424,426-431
  - Sweetwater County 420-424,426-431,432
  - Teton County 425
- Ground-water level records, explanation of... 13
- Ground-water records, by county:
  - Carbon County 418
  - Lincoln County 418
  - Sublette County 419
  - Uinta County 419

- Hampton, Muddy Creek near 199-207
- Hams Fork, below Pole Creek, near Frontier... 208-210
  - near Diamondville 211-213
  - near Granger 214-217
- Hardness, definition of 4
- Hay Reservoir near Red Desert 334
- Henrys Fork (Green River basin), near Lonetree 408-409
  - near Manila, UT 231-238
- Henrys Fork basin (Snake River basin), reservoir in 316

Page

- Hiawatha, CO, Vermillion Creek near 246-251
- Hilliard-East Fork Canal near State line, near Evanston 265
- Hoback River at mouth, at Hoback Junction.... 321
- Hoback River basin, crest-stage partial-record station in 319
  - discharge measurement at miscellaneous site in 321
- Hydrologic bench-mark station, definition of. 9
- Hydrologic conditions 2
- Hydrologic unit, defintion of 4

- Instantaneous discharge, definition of 4
- Introduction 1
- Iron Spring Creek near South Baxter 383

- Jack Morrow Creek, above Parnell Creek, near Farson 326
  - at mouth, near Farson 327
  - near Steamboat Mountain, near Farson 325
- Jackson, Cache Creek near 295-298
  - Snake River below Flat Creek, near 299-300
- Jackson Lake near Moran 290

- Kanda, Bitter Creek below Little Bitter Creek, near 161-163
- Killpecker Creek at Rock Springs 158-160

- La Barge, Green River near 46-54
- La Barge Creek near La Barge Meadows ranger station 42-45
- Lakes and reservoirs:
  - Flaming Gorge Reservoir 239
  - Fontenelle Reservoir near Fontenelle 58
  - Grassy Lake near Moran 316
  - Jackson Lake near Moran 290
  - Woodruff Narrows Reservoir near Woodruff, UT 275
- Lincoln County, ground-water quality records in 420-424,426-431
  - ground-water records in 418
- Little Basin Creek, above tributary, near South Baxter 386
  - at mouth, near South Baxter 387-389
  - tributary near South Baxter 387
- Little America, Blacks Fork near 218-227
- Little Muddy Creek, near Glencoe 195-198
  - North Fork, near Glencoe 320
- Little Sandy Creek, above Eden 72-74
  - near mouth, near Farson 328-329
- Little Snake River, near Baggs 262-263
  - near Dixon 254-259
  - near Slater, CO 252
  - North Fork, diversion to Hog Park Creek, near Encampment 320
- Loco Creek near McCary Ranch, near Savery.... 409-411
- Lost Creek, above Arapahoe Creek, near Bairoil 335
  - above Big Bend, near Bairoil 337-338
  - above Eagles Nest Spring, near Bairoil 340
  - above Lost Creek Lake 340
  - at Goodford Crossing, near Bairoil 339-340
  - below Arapahoe Creek, near Bairoil 336
  - below Eagles Nest Spring, near Bairoil 340
  - tributary above Arapahoe Creek, near Bairoil 335
  - tributary above Big Bend, near Bairoil 336
- Lost Soldier Creek, near Bairoil 341
  - near Lost Soldier Lake 342
  - near Twin Buttes 341
- Lower Stewart Reservoir near Riner 370
- Lyman, Blacks Fork near 188-194
  - Smiths Fork near 186-187

- Manila, UT, Henrys Fork near 231-238
- Meadow Springs Wash tributary near Green River 318
- Mean concentration, definition of 6
- Mean discharge, definition of 4
- Metamorphic stage, definition of 4
- Methylene blue active substance, definition of 4
- Micrograms per gram, definition of 4
- Micrograms per liter, definition of 4
- Millburne, Blacks Fork near 178-181
- Milligrams of carbon per area or volume per unit time [mg C/(m^2.time) for periphyton and macrophytes and mg C/(m^3.time)] for phytoplankton 6
- Milligrams of oxygen per area or volume per unit time [mg O_2/(m^2.time) for periphyton and macrophytes and mg O_2/(m^3.time)] for phytoplankton 6
- Milligrams per liter, definition of 4

Page

- Miscellaneous sites, analyses of samples collected at.... 322-417
  - discharge measurements at.... 320-321
- Moran, Buffalo Fork above Lava Creek, near... 293-294
  - Grassy Lake near.... 316
  - Jackson Lake near.... 290
  - Snake River near.... 291-292
- Mud Spring Hollow near Church Butte, near Lyman.... 318
- Muddy Creek near Hampton.... 199-207

- National stream-quality accounting network, definition of.... 9
- Natural substrate, definition of.... 6
- New Fork River near Big Piney.... 37-40
- No Name Creek near Rock Springs.... 151,317
- North Pacific Creek near Farson.... 324
- Numbering system for wells and miscellaneous sites.... 8

- Oakley, UT, West Fork Bear River at Whitney Dam, near.... 266
- Order, downstream, and station numbers.... 8
- Organic mass, definition of.... 3
- Organism, definition of.... 4
- Organsim count/area, definition of.... 4
- Organism count/volume, definition of.... 5
- Other data available.... 12

- Pacific Creek basin (Snake River basin), discharge measurement at miscellaneous site in.... 320
- Pacific Creek (Green River basin) above Jack Morrow Creek, near Farson.... 325
  - near Farson.... 75-76
- Pacific Creek (Snake River basin) at Moran... 320
- Parnell Creek at mouth, near Farson.... 326
- Partial-record station, definition of.... 5
- Partial-record stations, discharge at.... 317-319
- Particle size, definition of.... 5
- Particle-size classification, definition of.. 5
- Percent composition, definition of.... 5
- Periphyton, definition of.... 5
- Pesticide program, definition of.... 9
- Pesticides, definition of.... 5
- Phytoplankton, definition of.... 5
- Picocurie, definition of.... 5
- Pine Creek above Fremont Lake.... 28-32
- Pio Reservoir near Salt Wells.... 395-396
- Plankton, definition of.... 5
- Point of Rocks, Bitter Creek near.... 115
  - Deadman Wash near.... 114,317
- Polecat Creek basin, discharge measurement at miscellaneous site in.... 320
- Polecat Creek, near Flagg Ranch.... 320,415
  - near Huckleberry Hot Springs.... 414
- Polychlorinated biphenyls, definition of.... 5
- Pretty Water Creek at mouth, near South Baxter.... 400
- Primary productivity, definition of.... 6
- Publications on techniques of water-resources investigations.... 14

- Radiochemical program, definition of.... 9
- Randolph, UT, Bear River near.... 277
- Records, explanation of.... 9
  - Ground-water, collection.... 13
  - Surface-water, accuracy.... 11
    - collection.... 9
    - computation.... 9
    - other agencies.... 12
    - other data.... 12
  - Water-quality, collection.... 12
    - examination.... 12
    - parameter codes.... 12
    - sediment.... 13
    - temperature.... 12
- Records of discharge collected by agencies other than the Geological Survey.... 12
- Red Creek, above Hay Reservoir.... 334
  - above Kinch McKinney Spring.... 330
  - at Cyclone Rim.... 329
  - at Rocky Crossing.... 331
  - first order tributary near The Divide.... 329
  - first order tributary No. 2 near The Divide.... 329
  - near Five Fingers Butte.... 330
  - near The Divide.... 329
  - tributary at Rocky Crossing.... 332
  - tributary near Five Fingers Butte.... 331
- Red Desert, Delaney Draw near.... 106,317
- Reservoirs. See lakes and reservoirs.

Page

- Riner, Separation Creek at upper station, near.... 92-96
  - Separation Creek near.... 97-106
- Robertson, Blacks Fork near.... 177
  - East Fork of Smith Fork near.... 182-183
  - West Fork of Smith Fork near.... 184-185
- Rock Cabin Creek at mouth, near Farson.... 327
- Rock Springs, Big Flat Draw near.... 151,317
  - Killpecker Creek at.... 158-160
  - No Name Creek near.... 151,317
  - Salt Wells Creek near.... 152,317
- Runoff in inches, definition of.... 6

- Sage, Twin Creek at.... 278-281
- Salt River above Reservoir, near Etna.... 313-315
- Salt River basin, gaging-station records in.. 312-315
- Salt Wells, Bitter Creek above Salt Wells Creek, near.... 116-120
  - Salt Wells Creek near.... 153-157
- Salt Wells Creek, above East Salt Wells Creek, near South Baxter.... 399
  - above Gap Creek, near South Baxter.... 379-382
  - above Joyce Creek, near South Baxter.... 400
  - above Pretty Water Creek, near South Baxter.... 400
  - at iron culvert, near Rock Springs.... 402
  - below Alkali Creek, near South Baxter.... 376-378
  - below Dry Canyon Creek, near South Baxter.. 399
  - near Rock Springs.... 152,317
  - near Salt Wells.... 153-157
  - near South Baxter.... 121-127
  - tributary spring near South Baxter.... 371
  - 2.2 miles above Alkali Creek, near South Baxter.... 375-376
  - 3.0 miles above Alkali Creek, near South Baxter.... 372-374
- Sand Springs Creek near Lamont.... 342
  - tributary near Lamont.... 342
- Sand Springs Draw tributary near Boulder.... 317
- Savery Creek at upper station, near Savery... 411-413
- Sediment.... 13
  - definition of.... 6
- Separation Creek, above Sixteen Mile Draw, near Riner.... 356
  - at upper station, near Riner.... 92-96
  - near Riner.... 97-106
  - rill A1L below gage, near Riner.... 364
  - rill A2R below gage, near Riner.... 364
  - tributary below gage, near Riner.... 364
  - tributary near Riner.... 368-369
  - 6 miles below divide, near Riner.... 343-346
  - 8 miles below divide, near Riner.... 347-348
  - 10 miles below divide, near Riner.... 349-352
  - 14 miles below divide, near Riner.... 353-355
  - 20 miles below divide, below Sixteen Mile Draw, near Riner.... 358-359
  - 24 miles below divide, at spring, in section 10, near Riner.... 360
  - 27 miles below divide, at windmill, near Riner.... 361-363
  - 31 miles below divide, near Riner.... 365
  - 39 miles below divide, near Riner.... 366-368
  - 41 miles below divide, at I-80, near Riner. 369-370
- Sixteen Mile Draw, above dam, at mouth, near Riner.... 357
  - below dam, at mouth, near Riner.... 357-358
- Skunk Canyon Creek near Green River.... 317
- Slater, CO, Little Snake River near.... 252
  - Slater Fork near.... 253
- Slater Fork near Slater, CO.... 253
- Smith Fork, East Fork of, near Robertson.... 182-183
  - West Fork of, near Robertson.... 184-185
- Smiths Fork (Bear River basin) near Border... 283
- Smiths Fork (Green River basin), near Lyman.. 186-187
  - near Robertson.... 405-407
- Snake River, above Jackson Lake, near Flagg Ranch.... 415
  - above Moose.... 417
  - above reservoir, near Alpine.... 301-309
  - at Flagg Ranch, near Colter Bay Village.... 320,414
  - at Moose.... 320
  - below Flat Creek, near Jackson.... 299-300
  - below Moose.... 417
  - near Moran.... 291-292
- Snake River basin, analyses of samples collected at miscellaneous sites in.... 414-417
  - crest-stage partial-record station in.... 319
  - discharge measurements at miscellaneous sites in.... 320-321
  - gaging-station records in.... 290-316
- Sodium-adsorption ratio, definition of.... 6
- Solute, definition of.... 6

Page

Sour Moose Creek near Bondurant............ 319
South Baxter, Beans Spring Creek
  at mouth, near........................ 132-136
  Beans Spring Creek near.................. 130-131
  Gap Creek, above Beans Spring Creek, near.. 128-129
    below Beans Spring Creek, near.......... 137-150
  Salt Wells Creek near.................... 121-127
Special networks and programs.............. 9
Specific conductance, definition of......... 6
Spread Creek near Moran..................... 320,416
Spread Creek basin, discharge measurement
  at miscellaneous site in.................. 320
Squaw Hollow near Burntfork................. 318
Stage-discharge relation, definition of...... 6
Station number, downstream order and......... 8
Streamflow, definition of................... 6
Sublette County, ground-water quality
  records in.......................420-424,426-431
  ground-water records in.................. 419
Substrate, definition of.................... 6
  Artificial, definition of................. 7
  Natural, definition of.................... 6
Sulphur Creek, above Reservoir,
  near Evanston............................ 269
  below Reservoir, near Evanston........... 270
Summers Dry Creek near Green River.......... 228,318
Surface area, definition of................. 7
Surface-water records....................... 21-316
Surface-water records, explanation of....... 9
Surficial bed material, definition of....... 7
Suspended, definition of.................... 7
Suspended sediment, definition of........... 6
Suspended-sediment, concentration,
  definition of............................ 6
  discharge, definition of................. 6
  load, definition of...................... 6
Swan Lake tributary at Swan Lake, Grand
  Teton National Park...................... 416
Sweetwater County, ground-water quality
  records in....................420-424,426-431,432
Swift Creek near Afton...................... 312

Taxonomy, definition of..................... 7

Page

Terms and abbreviations, definition of....... 2
Teton County, ground-water quality
  records in............................... 425
Thermograph, definition of.................. 7
Thomas Fork near Wyoming-Idaho State line.... 289
Time-weighted average, definition of......... 7
Titsworth Springs near South Baxter......... 390-391
Tons per acre-foot, definition of........... 7
Tons per day, definition of................. 7
Total, definition of........................ 7
Total coliform bacteria, definition of....... 2
Total load, definition of................... 7
Total organism count, definition of......... 5
Total sediment discharge or total sediment
  load, definition of...................... 6
Tritium network, definition of.............. 9
Twin Creek at Sage.......................... 278-281

Uinta County, ground-water records in........ 419

Vermillion Creek near Hiawatha, CO........... 248-253

Water analysis.............................. 12
Water-quality records, explanation of....... 12
Water temperature........................... 12
Water year, definition of................... 7
Weighted average, definition of............. 7
Well number................................. 8
Wet mass, definition of..................... 3
Whitney Canyon Creek near Evanston.......... 319
Willow Creek near Dixon..................... 260
Woodruff Narrows Reservoir near
  Woodruff, UT............................. 275
Woodruff, UT, Bear River above Reservoir,
  near..................................... 273-274
  Bear River below reservoir, near......... 276
  Woodruff Narrows Reservoir near.......... 275
WRD, definition of.......................... 7
WSP, definition of.......................... 7

Yellow Creek near Evanston.................. 271

Zooplankton, definition of.................. 5

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FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	2.54x10^{1}	millimeters (mm)
	2.54x10^{-2}	meters (m)
feet (ft)	3.048x10^{-1}	meters (m)
miles (mi)	1.609x10^{0}	kilometers (km)
	Area	
acres	4.047x10^{3}	square meters (m^2)
	4.047x10^{-1}	*hectares (ha)
	4.047x10^{-1}	square hectometers (hm^2)
	4.047x10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590x10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785x10^{0}	**liters (l)
	3.785x10^{0}	cubic decimeters (dm^3)
	3.785x10^{-3}	cubic meters (m^3)
million gallons (10^6 gal)	3.785x10^{3}	cubic meters (m^3)
	3.785x10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832x10^{1}	cubic decimeters (dm^3)
	2.832x10^{-2}	cubic meters (m^3)
cfs-days [(ft^3/s) · d]	2.447x10^{3}	cubic meters (m^3)
	2.447x10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233x10^{3}	cubic meters (m^3)
	1.233x10^{-3}	cubic hectometers (hm^3)
	1.233x10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832x10^{1}	liters per second (l/s)
	2.832x10^{1}	cubic decimeters per second (dm^3/s)
	2.832x10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309x10^{-2}	liters per second (l/s)
	6.309x10^{-2}	cubic decimeters per second (dm^3/s)
	6.309x10^{-5}	cubic meters per second (m^3/s)
million gallons per day (mgal/d)	4.381x10^{1}	cubic decimeters per second (dm^3/s)
	4.381x10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072x10^{-1}	tonnes (t)

***The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.**

****The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.**